Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Nuclear Instruments and Methods in Physics Research A 515 (2003) 895–916
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A
www.elsevier.com/locate/nima

Author Index

Aalseth, C.E., see González, D. 515 (2003) 634
Abbrescia, M., A. Colaleo, G. Iaselli, F. Loddo, M. Maggi, B. Marangelli, S. Natali, S. Nuzzo, G. Pugliese, A. Ranieri, F. Romano, S. Altieri, G. Belli, G. Bruno, R. Guida, S.P. Ratti, C. Riccardi, P. Torre and P. Vitulo, Aging study for resistive plate chambers of the CMS muon trigger detector 515 (2003) 342
Acosta, D., G. Apollinari, K. Arisaka, N. Bondar, R. Breedon, A. Bujak, B. Bylsma, N. Chester, R. Clare, D. Cline, R. Cousins, T. Cox, S. Dolinsky, S. Durkin, D. Eartly, Yu. Ivanov, T. Ferguson, G. Gavrilov, J. Gilmore, J. Gu, L. Gutay, F. Hann, R. Hartmut, J. Hauser, K. He, M. Ignatenko, S. Ilie, C. Jiang, W. Ko, A. Korytov, A. Krivshich, K. Kuznetsova, J. Layter, R. Lee, P. Levtchenko, T.Y. Ling, D. Loveless, S. Lusin, K. Maeshima, A. Madorsky, C. Matthey, M. Matveev, M. von der Mey, G. Mitselmakher, S. Otwinowski, P. Padley, I. Pal, Yu. Pischalnikov, O. Prokofiev, V. Razmyslovich, D. Reeder, J. Roberts, L. Schipunov, I. Smirnov, V. Souvorov, J. Stasko, H. Sun, V. Sytnik, N. Terentyev, M. Tripathi, S. Vavilov, S. Volkov, A. Vorobyov, I. Vorobyov, L. Wang, V. Yarba, L. Zhou and Z. Zhu, Aging tests of full-scale CMS muon cathode strip chambers 515 (2003) 226
Adeva, B., L. Afanasyev, M. Benayoun, A. Benelli, Z. Berka, V. Brekhovskikh, G. Caragheorgheopol, T. Cechak, M. Chiba, E. Cima, S. Constantinescu, C. Detraz, D. Dreossi, D. Drijard, A. Dudarev, I. Evangelou, M. Ferro-Luzzi, M.V. Gallas, J. Gerndt, R. Giacomich, P. Gianotti, M. Giardoni, D. Goldin, F. Gómez, A. Gorin, O. Gortchakov, C. Guaraldo, M. Hansroul, M. Iliescu, M. Zhabitsky, V. Karpukhin, J. Kluson, M. Kobayashi, P. Kokkas, V. Komarov, V. Kruglov, L. Kruglova, A. Kulikov, A. Kuptsov, V. Kurochkin, K.-I. Kuroda, A. Lamberto, A. Lanaro, V. Lapshin, R. Lednicky, P. Leruste, P. Levisandri, A.L. Aguera, V. Lucherini, T. Maki, N. Manthos, I. Manuilov, L. Montanet, J.-L. Narjoux, L. Nemenov, M. Nikitin, T.N. Pardo, K. Okada, V. Olchevskii, D. Orecchini, A. Pazos, M. Pentia, A. Penzo, J.-M. Perreau, C. Petrascu, M. Pló, T. Ponta, D. Pop, G.F. Rappazzo, A. Riazantsev, J.M. Rodriguez, A.R. Fernandez, A. Romero, V. Rykalin, C. Santamarina, J. Saborido, J. Schacher, C.P. Schuetz, A. Sidorov, J. Smolik, M. Steinacher, F. Takeutchi, A. Tarasov, L. Tauscher, M.J. Tobar, F. Triantis, S. Trusov, V. Utkin, O.V. Doce, P. Vázquez, S. Vlachos, V. Yazkov, Y. Yoshimura and P. Zrelov, DIRAC: A high resolution spectrometer for pionium detection 515 (2003) 467
Afanasyev, L., see Adeva, B. 515 (2003) 467
Agosteo, S., C. Birattari, G. D'Angelo, F. Dal Corso, A. Foglio Para, I. Lippi, A. Pola and P. Zotto, Neutron spectrometry with a recoil radiator-silicon detector device 515 (2003) 589
Aguera, A.L., see Adeva, B. 515 (2003) 467
Ahlen, S., G. Hu, D. Osborne, A. Schulz, J. Shank, Q. Xu and B. Zhou, ATLAS MDT neutron sensitivity measurement and modeling 515 (2003) 446
Aielli, G., P. Camarri, R. Cardarelli, A. Di Ciaccio, L. Di Stante, B. Liberti, A. Paoloni, E. Pastori and R. Santonico, Further advances in aging studies for RPCs 515 (2003) 335
Akesson, T., E. Barberio, V. Bondarenko, M. Capeans, A. Catinaccio, P. Cwetanski, H. Danielsson, F. Dittus, B. Dolgoshein, N. Dressnandt, W.L. Ebenstein, P. Eerola, P. Farthouat, O. Fedin, D. Froidevaux, I. Gavrilenko, Y. Grichkevitch, P. Gagnon, Z. Hajduk, P.T. Keener, G. Kekelidze, S. Konovalov, T. Kowalski, V.A. Kramarenko, A. Laritchev, P. Lichard, B. Lundberg, F. Luehring, I. Markina, A. Manara, K. Mcfarlane, V. Mitsou, S. Muraviev, F.M. Newcomer, H. Ogren, S.H. Oh, J. Olszowska, V. Peshekhonov, C. Rembser, A. Romaniouk, O. Rhone, D.R. Rust, V. Schegelsky, A. Shmeleva, S. Smirnov, L.N. Smirnova, V. Sosnovtsev, S. Sutchkov, F. Tartarelli, V. Tikhomirov, R. Van Berg, L. Vassilieva, C. Wang and H.H. Williams, Aging studies for the ATLAS Transition Radiation Tracker (TRT) 515 (2003) 166
Albrecht, H., T.S. Bauer, M. Beck, A. Belkov, K. Berkhan, G. Bohm, M. Bruinsma, T. Buran, M. Capeans, J. Chamanina, B.X. Chen, H. Deckers, K. Dehmelt, X. Dong, R. Eckmann, D. Emelianov, S. Fourletov, I. Golutvin, M. Hohlmann, K. Höpfner, W. Hulsbergen, Y. Jia, C. Jiang, H. Kapitza, S. Karabekyan, Z. Ke, Y. Kiryushin, H. Kolanoski, S. Korpar, P. Križan, D. Krücker, A. Lanyov, Y.Q. Liu,

doi:10.1016/S0168-9002(03)02781-5

T. Lohse, R. Loke, R. Mankel, G. Medin, E. Michel, A. Moshkin, J. Ni, S. Nowak, M. Ouchrif, C. Padilla, D. Pose, D. Ressing, V. Saveliev, B. Schmidt, W. Schmidt-Parzefall, A. Schreiner, U. Schwanke, A.S. Schwarz, I. Siccama, S. Solunin, S. Somov, V. Souvorov, A. Spiridonov, M. Starič, C. Stegmann, O. Steinkamp, N. Tesch, I. Tsakov, U. Uwer, S. Vassiliev, I. Vukotic, M. Walter, J.J. Wang, Y.M. Wang, R. Wurth, J. Yang, Z. Zheng, Z. Zhu and R. Zimmermann, Aging studies for the large honeycomb drift tube system of the Outer Tracker of HERA-B 515 (2003) 155

Altieri, S., see Abbrescia, M. 515 (2003) 342

Altunbas, M.C., K. Dehmelt, S. Kappler, B. Ketzer, L. Ropelewski, F. Sauli and F. Simon, Aging measurements with the Gas Electron Multiplier (GEM) 515 (2003) 249

Alviggi, M., G. Carlino, F. Conventi, R. de Asmundis, M.D. Pietra, D.D. Volpe, S. Patricelli, P. Paolucci, D. Piccolo, C. Sciacca and G. Sekhniaidze, Results on long-term performances and laboratory tests of the L3 RPC system at LEP 515 (2003) 328

Ambrose, D., see Binkley, M. 515 (2003) 53

Anderhub, H., F. Beissel, B. Betev, A. Biland, A. Böhm, D. Bourilkov, C. Camps, V. Commichau, L. Djambazov, P. Göttlicher, K. Hangarter, H. Hofer, A. Holzner, U. Horisberger, A. Kopp, R. Leiste, W. Lohmann, W. Lustermann, J. Mnich, C. Paus, M. Pohl, G. Rahal, U. Röser, M. Sassowsky, C. Schäfer, A.S. Schmidt-Kärst, P. Schmitz, T. Spickermann, A. Straessner, H. Suter, H. Szczesny, G. Viertel, H. Vogt, H.P.V. Gunten, S. Waldmeier, M. Weber and P. Wienemann, Experience with the L3 vertex drift chamber at LEP 515 (2003) 31

Andreev, V.A., see Maev, E.M. 515 (2003) 288

Anulli, F., R. Baldini, H. Band, R. Bionta, J. Brau, V. Brigljevic, A. Buzzo, A. Calcaterra, M. Carpinelli, T. Cartaro, N. Cavallo, G. Crosetti, G. De Nardo, R. De Sangro, A. Eichenbaum, D. Falciai, F. Fabozzi, F. Ferroni, G. Finocchiaro, F. Forti, R. Frey, J. Johnson, C. Gatto, E. Grauges-Pous, M. Iwasaki, D. Lange, L. Lista, M. Lo Vetere, C. Lu, H. Neal, N. Neri, M. Macri, B. Messener, M.R. Monge, T. Moore, S. Morganti, A. Palano, E. Paoloni, P. Paolucci, S. Passaggio, F. Pastore, C. Patrignani, P. Patteri, I. Peruzzi, D. Piccolo, M. Piccolo, G. Piredda, A. Pompili, E. Robutti, A. Roodman, A. Santroni, C. Sciacca, N. Sinev, A. Soha, D. Storm, S. Tosi, J. Va'vra, Y. Xie, D. Wright and W. Wisniewski, Performances of RPCs in the BaBar experiment 515 (2003) 322

Apollinari, G., see Acosta, D. 515 (2003) 226

Arisaka, K., see Acosta, D. 515 (2003) 226

Asano, Y., see Bizen, T. 515 (2003) 850

Astier, P., D. Autiero, A. Baldisseri, M. Baldo-Ceolin, M. Banner, G. Bassompierre, K. Benslama, N. Besson, I. Bird, B. Blumenfeld, F. Bobisut, J. Bouchez, S. Boyd, A. Bueno, S. Bunyatov, L. Camilleri, A. Cardini, P.W. Cattaneo, V. Cavasinni, A. Cervera-Villanueva, G. Collazuol, G. Conforto, C. Conta, R. Cousins, D. Daniels, H. Degaudenzi, T. Del Prete, A. De Santo, T. Dignan, L. Di Lella, E. do Couto e Silva, J. Dumarchez, M. Ellis, G.J. Feldman, A. Ferrari, R. Ferrari, D. Ferrère, V. Flaminio, M. Fraternali, J.-M. Gaillard, E. Gangler, A. Geiser, D. Geppert, D. Gibin, S. Gninenko, A. Godley, J.-J. Gomez-Cadenas, J. Gosset, C. Gößling, M. Gouanère, A. Grant, G. Graziani, A. Guglielmi, C. Hagner, J. Hernando, T.M. Hong, D. Hubbard, P. Hurst, N. Hyett, E. Iacopini, C. Joseph, F. Juget, M. Kirsanov, O. Klimov, J. Kokkonen, A. Kovzelev, A. Krasnoperov, C. Lachaud, B. Lakić, A. Lanza, L. La Rotonda, M. Laveder, A. Letessier-Selvon, J.-M. Levy, L. Linssen, A. Ljubičić, J. Long, A. Lupi, A. Marchionni, F. Martelli, X. Méchain, J.-P. Mendiburu, J.-P. Meyer, M. Mezzetto, S.R. Mishra, G.F. Moorhead, P. Nédélec, Yu. Nefedov, C. Nguyen-Mau, D. Orestano, F. Pastore, L.S. Peak, E. Pennacchio, H. Pessard, R. Petti, A. Placci, G. Polesello, D. Pollmann, A. Polyarush, B. Popov, C. Poulsen, J. Rico, P. Riemann, C. Roda, A. Rubbia, F. Salvatore, K. Schahmaneche, B. Schmidt, Th. Schmidt, M. Sevior, D. Shih, D. Sillou, F.J.P. Soler, G. Sozzi, D. Steele, U. Stiegler, M. Stipčević, T. Stolarczyk, M. Tareb-Reyes, G.N. Taylor, V. Tereshchenko, A. Toropin, A.-M. Touchard, S.N. Tovey, M.-T. Tran, E. Tsesmelis, J. Ulrichs, L. Vacavant, M. Valdata-Nappi, V. Valuev, F. Vannucci, K.E. Varvell, M. Veltri, V. Vercesi, G. Vidal-Sitjes, J.-M. Vieira, T. Vinogradova, F.V. Weber, T. Weisse, F.F. Wilson, L.J. Winton, B.D. Yabsley, H. Zaccone and K. Zuber, Prediction of neutrino fluxes in the NOMAD experiment 515 (2003) 800

Atac, M., see Binkley, M. 515 (2003) 53

Atiya, M., see Lau, K. 515 (2003) 313

Augustinus, A., V. Canale, P. Charpentier, J.-P. De Wulf, F. Fontanelli, F. Formenti, C. Gaspar, P. Gavillet, R. Goorens, J.P. Laugier, P. Musico, M. Paganoni, M. Sannino and G. Valenti, The DELPHI Trigger System at LEP2 energies 515 (2003) 782

Autiero, D., see Astier, P. 515 (2003) 800

Avignone III, F.T., see González, D. 515 (2003) 634

Bailey, D. and R. Hall-Wilton, Experience with the ZEUS central tracking detector 515 (2003) 37
Bains, B., see Tanaka, H. 515 (2003) 725
Baldini, R., see Anulli, F. 515 (2003) 322
Baldisseri, A., see Astier, P. 515 (2003) 800
Baldo-Ceolin, M., see Astier, P. 515 (2003) 800
Band, H., see Anulli, F. 515 (2003) 322
Banner, M., see Astier, P. 515 (2003) 800
Barbeau, P.S., J.I. Collar, J.D. Geissinger, J. Miyamoto, I. Shipsey and R. Yang, A first mass production of gas electron multipliers 515 (2003) 439
Barberio, E., see Akesson, T. 515 (2003) 166
Bardelli, L., see Bini, M. 515 (2003) 497
Bartoli, A., see Bini, M. 515 (2003) 497
Bassompierre, G., see Astier, P. 515 (2003) 800
Bauer, G., see Binkley, M. 515 (2003) 53
Bauer, T.S., see Albrecht, H. 515 (2003) 155
Beck, M., see Albrecht, H. 515 (2003) 155
Beissel, F., see Anderhub, H. 515 (2003) 31
Belkov, A., see Albrecht, H. 515 (2003) 155
Belli, G., see Abbrescia, M. 515 (2003) 342
Benayoun, M., see Adeva, B. 515 (2003) 467
Benelli, A., see Adeva, B. 515 (2003) 467
Benslama, K., see Astier, P. 515 (2003) 800
Bergmann, U.C., H.O.U. Fynbo and O. Tengblad, Use of Si strip detectors for low-energy particles in compact geometry 515 (2003) 657
Berka, Z., see Adeva, B. 515 (2003) 467
Berkhan, K., G. Bohm, H. Kolanoski, A. Schreiner, U. Schwanke, V. Souvorov, C. Stegmann, U. Uwer and M. Walter, Observations on cathode aging (Malter effect) in honeycomb drift chambers under high irradiation load 515 (2003) 185
Berkhan, K., see Albrecht, H. 515 (2003) 155
Besson, N., see Astier, P. 515 (2003) 800
Betev, B., see Anderhub, H. 515 (2003) 31
Bidini, L., see Bini, M. 515 (2003) 497
Biegel, J., see Coakley, K.J. 515 (2003) 892
Biland, A., see Anderhub, H. 515 (2003) 31
Bini, M., G. Casini, A. Olmi, G. Poggi, A.A. Stefanini, L. Bardelli, A. Bartoli, L. Bidini, C. Coppi, P. Del Carmine, A. Mangiarotti, P.R. Maurenzig, G. Pasquali, S. Piantelli, S. Poggi, N. Taccetti and E. Vanzi, FIASCO: a multidetector optimized for semiperipheral heavy ion collisions at Fermi energies 515 (2003) 497
Binkley, M., R.L. Wagner, A. Mukherjee, D. Ambrose, G. Bauer, D.M. Khazins and M. Atac, Aging in large CDF tracking chambers 515 (2003) 53
Bionta, R., see Anulli, F. 515 (2003) 322
Birattari, C., see Agosteo, S. 515 (2003) 589
Bird, I., see Astier, P. 515 (2003) 800
Bizen, T., Y. Asano, T. Hara, X. Marechal, T. Seike, T. Tanaka, H.S. Lee, D.E. Kim, C.W. Chung and H. Kitamura, Baking effect for NdFeB magnets against demagnetization induced by high-energy electrons . . . 515 (2003) 850
Bizzeti, A., G. Carboni, G. Collazuol, S. De Capua, D. Domenici, G. Ganis, R. Messi, G. Passaleva, E. Santovetti and M. Veltri, First results from an aging test of a prototype RPC for the LHCb Muon System 515 (2003) 348
Blinov, V.E., I.N. Popkov and A.N. Yushkov, Aging measurements in wire chambers 515 (2003) 95
Blumenfeld, B., see Astier, P. 515 (2003) 800
Bobisut, F., see Astier, P. 515 (2003) 800
Böhm, A., see Anderhub, H. 515 (2003) 31
Bohm, G., see Albrecht, H. 515 (2003) 155
Bohm, G., see Berkhan, K. 515 (2003) 185
Bohm, G., see Schreiner, A. 515 (2003) 146
Bollini, D., A.E. Rodriguez, W. Dąbrowski, A.D. Garcia, M. Gambaccini, P. Giubellino, P. Grybos, M. Idzik, A. Marzari-Chiesa, L.M. Montano, F. Prino, L. Ramello, M. Sitta, K. Swientek, R. Wheadon and P. Wiacek, Energy resolution of a silicon detector with the RX64 ASIC designed for X-ray imaging 515 (2003) 458
Bondar, N., see Acosta, D. 515 (2003) 226

Bondarenko, V., see Akesson, T. 515 (2003) 166
Bouchez, J., see Astier, P. 515 (2003) 800
Boulogne, I., E. Daubie, F. Defontaines and F. Grard, Aging tests of MSGC detectors 515 (2003) 196
Bourilkov, D., see Anderhub, H. 515 (2003) 31
Bouwhuis, M., see Tanaka, H. 515 (2003) 725
Bowman, J.D., see Snow, W.M. 515 (2003) 563
Boyarski, A.M., Additives that prevent or reverse cathode aging in drift chambers with helium–isobutane gas 515 (2003) 190
Boyd, S., see Astier, P. 515 (2003) 800
Braem, A., M. Davenport, A. Di Mauro, P. Martinengo, E. Nappi, G. Paić, F. Piuz and E. Schyns, Aging of large-area CsI photocathodes for the ALICE HMPID prototypes 515 (2003) 307
Brau, J., see Anulli, F. 515 (2003) 322
Breedon, R., see Acosta, D. 515 (2003) 226
Brekhovskikh, V., see Adeva, B. 515 (2003) 467
Briel, U.G., see Pfeffermann, E. 515 (2003) 65
Brigljevic, V., see Anulli, F. 515 (2003) 322
Brodzinski, R.L., see González, D. 515 (2003) 634
Broemmelsiek, D., see Lau, K. 515 (2003) 313
Bruinsma, M., see Albrecht, H. 515 (2003) 155
Bruno, G., see Abbrescia, M. 515 (2003) 342
Bueno, A., see Astier, P. 515 (2003) 800
Bujak, A., see Acosta, D. 515 (2003) 226
Bunyatov, S., see Astier, P. 515 (2003) 800
Buran, T., see Albrecht, H. 515 (2003) 155
Buttar, C., see Dawson, I. 515 (2003) 422
Buttar, C., see Eklund, L. 515 (2003) 415
Buzzo, A., see Anulli, F. 515 (2003) 322
Bylsma, B., see Acosta, D. 515 (2003) 226

Calcaterra, A., see Anulli, F. 515 (2003) 322
Camarri, P., see Aielli, G. 515 (2003) 335
Camilleri, L., see Astier, P. 515 (2003) 800
Camps, C., see Anderhub, H. 515 (2003) 31
Canale, V., see Augustinus, A. 515 (2003) 782
Capeans, M., Aging and materials: lessons for detectors and gas systems 515 (2003) 73
Capeáns, M., K. Dehmelt, M. Hohlmann and B. Schmidt, A long-term aging study of honeycomb drift tubes for the HERA-B Outer Tracker using a circulated and purified CF_4 gas mixture 515 (2003) 140
Capeans, M., see Akesson, T. 515 (2003) 166
Capeans, M., see Albrecht, H. 515 (2003) 155
Caragheorgheopol, G., see Adeva, B. 515 (2003) 467
Carboni, G., see Bizzeti, A. 515 (2003) 348
Cardarelli, R., see Aielli, G. 515 (2003) 335
Cardini, A., see Astier, P. 515 (2003) 800
Cardoso, J.M., see Freitas, E.D.C. 515 (2003) 618
Carlino, G., see Alviggi, M. 515 (2003) 328
Carpinelli, M., see Anulli, F. 515 (2003) 322
Cartaro, T., see Anulli, F. 515 (2003) 322
Casini, G., see Bini, M. 515 (2003) 497
Catinaccio, A., see Akesson, T. 515 (2003) 166
Cattaneo, P.W., see Astier, P. 515 (2003) 800
Cavallo, N., see Anulli, F. 515 (2003) 322
Cavasinni, V., see Astier, P. 515 (2003) 800
Cebrián, S., see González, D. 515 (2003) 634
Cechak, T., see Adeva, B. 515 (2003) 467
Cervera-Villanueva, A., see Astier, P. 515 (2003) 800
Chamanina, J., see Albrecht, H. 515 (2003) 155
Charpentier, P., see Augustinus, A. 515 (2003) 782
Chen, B.X., see Albrecht, H. 515 (2003) 155

Chen, C.E., see Lu, Y.R. 515 (2003) 394
Chen, T., see Ye, Y.L. 515 (2003) 718
Chester, N., see Acosta, D. 515 (2003) 226
Chiara, C.J., see Starosta, K. 515 (2003) 771
Chiba, M., see Adeva, B. 515 (2003) 467
Cho, S.O., B.C. Lee and Y.U. Jeong, Effects of beam loss on the stability of a recirculating electrostatic accelerator for a long-pulse free-electron laser 515 (2003) 402
Choi, J., see Lee, T.-Y. 515 (2003) 410
Chung, C.W., see Bizen, T. 515 (2003) 850
Cima, E., see Adeva, B. 515 (2003) 467
Cindro, V., see Dawson, I. 515 (2003) 422
Clare, R., see Acosta, D. 515 (2003) 226
Cline, D., see Acosta, D. 515 (2003) 226
Coakley, K.J., R.G. Downing, G.P. Lamaze, H.C. Hofsass, C. Ronning and J. Biegel, Erratum to "Modeling detector response for Neutron Depth Profiling" [Nucl. Instr. and Meth. A 366 (1995) 137] 515 (2003) 892
Cohen-Tanugi, J., M. Convery, B. Ratcliff, X. Sarazin, J. Schwiening and J. Va'vra, Optical properties of the DIRC fused silica Cherenkov radiator 515 (2003) 680
Colaleo, A., see Abbrescia, M. 515 (2003) 342
Collar, J.I., see Barbeau, P.S. 515 (2003) 439
Collazuol, G., see Astier, P. 515 (2003) 800
Collazuol, G., see Bizzeti, A. 515 (2003) 348
Commichau, V., see Anderhub, H. 515 (2003) 31
Conforto, G., see Astier, P. 515 (2003) 800
Constantinescu, S., see Adeva, B. 515 (2003) 467
Conta, C., see Astier, P. 515 (2003) 800
Contarato, D., see Kramberger, G. 515 (2003) 665
Conventi, F., see Alviggi, M. 515 (2003) 328
Convery, M., see Cohen-Tanugi, J. 515 (2003) 680
Coppi, C., see Bini, M. 515 (2003) 497
Cousins, R., see Acosta, D. 515 (2003) 226
Cousins, R., see Astier, P. 515 (2003) 800
Cox, T., see Acosta, D. 515 (2003) 226
Crosetti, G., see Anulli, F. 515 (2003) 322
Cwetanski, P., see Akesson, T. 515 (2003) 166

Dąbrowski, W., see Bollini, D. 515 (2003) 458
Dal Corso, F., see Agosteo, S. 515 (2003) 589
Dalin, J.M., see Ferguson, T. 515 (2003) 266
D'Angelo, G., see Agosteo, S. 515 (2003) 589
Daniels, D., see Astier, P. 515 (2003) 800
Danielsson, H., see Akesson, T. 515 (2003) 166
Danilov, M., Yu. Guilitsky, T. Kvaratschellia, I. Tikhomirov, M. Titov and Yu. Zaitsev, Aging studies for the muon detector of HERA-B 515 (2003) 202
Daubie, E., see Boulogne, I. 515 (2003) 196
Davenport, M., see Braem, A. 515 (2003) 307
Dawson, I., A. Moraes, C. Buttar, V. Cindro and I. Mandić, Radioactivation of silicon tracker modules in high-luminosity hadron collider radiation environments 515 (2003) 422
Dawson, R.B., J. Maillard, G. Maurel, J. Silva and G. Waysand, Preliminary study of the feasibility of a non-crystalline positron emission tomography using a suspension of superheated superconducting grains (SSG) in high-density dielectric matrix (HDDM) as detector 515 (2003) 869
de Asmundis, R., see Alviggi, M. 515 (2003) 328
De Capua, S., see Bizzeti, A. 515 (2003) 348
Deckers, H., see Albrecht, H. 515 (2003) 155
Defontaines, F., see Boulogne, I. 515 (2003) 196
Degaudenzi, H., see Astier, P. 515 (2003) 800
de Haan, V.O. and T.H.J.J. van der Hagen, Optimisation of fast-neutron detection efficiency and spatial resolution for a radiographic imaging system 515 (2003) 886

de Haan, V.O. and T.H.J.J. van der Hagen, Proposal for enhanced spatial resolution and efficiency of a fast-neutron scintillator detector by use of a parabolic mirror 515 (2003) 881
Dehmelt, K., see Albrecht, H. 515 (2003) 155
Dehmelt, K., see Altunbas, M.C. 515 (2003) 249
Dehmelt, K., see Capeáns, M. 515 (2003) 140
Deitinghoff, H., see Lu, Y.R. 515 (2003) 394
Del Carmine, P., see Bini, M. 515 (2003) 497
Del Prete, T., see Astier, P. 515 (2003) 800
De Nardo, G., see Anulli, F. 515 (2003) 322
De Sangro, R., see Anulli, F. 515 (2003) 322
De Santo, A., see Astier, P. 515 (2003) 800
de Solórzano, A.O., see González, D. 515 (2003) 634
Detraz, C., see Adeva, B. 515 (2003) 467
DeVol, T.A., see Tan, H. 515 (2003) 624
De Wulf, J.-P., see Augustinus, A. 515 (2003) 782
Di, Z.Y., see Ye, Y.L. 515 (2003) 718
Di Ciaccio, A., see Aielli, G. 515 (2003) 335
Dignan, T., see Astier, P. 515 (2003) 800
Di Lella, L., see Astier, P. 515 (2003) 800
Di Mauro, A., see Braem, A. 515 (2003) 307
Di Stante, L., see Aielli, G. 515 (2003) 335
Dittus, F., see Akesson, T. 515 (2003) 166
Djambazov, L., see Anderhub, H. 515 (2003) 31
Doce, O.V., see Adeva, B. 515 (2003) 467
do Couto e Silva, E., see Astier, P. 515 (2003) 800
Dolgoshein, B., see Akesson, T. 515 (2003) 166
Dolinsky, S., see Acosta, D. 515 (2003) 226
Domenici, D., see Bizzeti, A. 515 (2003) 348
Dong, X., see Albrecht, H. 515 (2003) 155
dos Santos, J.M.F., see Freitas, E.D.C. 515 (2003) 618
Downing, R.G., see Coakley, K.J. 515 (2003) 892
Dreis, H.-B., Gas support systems for hadronic high-rate detectors—the example of the Inner Tracker of HERA-B 515 (2003) 126
Dreossi, D., see Adeva, B. 515 (2003) 467
Dressnandt, N., see Akesson, T. 515 (2003) 166
Drijard, D., see Adeva, B. 515 (2003) 467
Dudarev, A., see Adeva, B. 515 (2003) 467
Dumarchez, J., see Astier, P. 515 (2003) 800
Dünnweber, W., C. Ilgner, J. Neumayr and K. Platzer, Irradiation response of straw drift tubes 515 (2003) 234
Durkin, S., see Acosta, D. 515 (2003) 226

Eartly, D., see Acosta, D. 515 (2003) 226
Ebenstein, W.L., see Akesson, T. 515 (2003) 166
Eckmann, R., see Albrecht, H. 515 (2003) 155
Eerola, P., see Akesson, T. 515 (2003) 166
Eichenbaum, A., see Anulli, F. 515 (2003) 322
Eklund, L., C. Buttar, C. Grigson, G. Kramberger, I. Mandić, M. Mikuž and P. Phillips, SEU rate estimates for the ATLAS/SCT front-end ASIC 515 (2003) 415
Ellis, M., see Astier, P. 515 (2003) 800
Emelianov, D., see Albrecht, H. 515 (2003) 155
Evangelou, I., see Adeva, B. 515 (2003) 467

Fabozzi, F., see Anulli, F. 515 (2003) 322
Falciai, D., see Anulli, F. 515 (2003) 322
Fang, J.X., see Lu, Y.R. 515 (2003) 394
Farthouat, P., see Akesson, T. 515 (2003) 166

Fedin, O., see Akesson, T. 515 (2003) 166
Feldman, G.J., see Astier, P. 515 (2003) 800
Ferencei, J., see Stellberger, A. 515 (2003) 543
Ferguson, T., A. Krivchitch and V. Maleev, Gas gain and space charge effects in aging tests of gaseous detectors 515 (2003) 283
Ferguson, T., G. Gavrilov, V. Gratchev, J.M. Dalin, A. Krivchitch, E. Kuznetsova, V. Lebedev, E. Lobachev, V. Polychronakos, L. Schipunov and V. Tchernjatin, Swelling phenomena in anode wires aging under a high accumulated dose 515 (2003) 266
Ferguson, T., see Acosta, D. 515 (2003) 226
Fernandes, L.M.P., see Freitas, E.D.C. 515 (2003) 618
Fernandez, A.R., see Adeva, B. 515 (2003) 467
Ferrari, A., see Astier, P. 515 (2003) 800
Ferrari, R., see Astier, P. 515 (2003) 800
Ferrère, D., see Astier, P. 515 (2003) 800
Ferro-Luzzi, M., see Adeva, B. 515 (2003) 467
Ferroni, F., see Anulli, F. 515 (2003) 322
Fetisov, A.A., see Maev, E.M. 515 (2003) 288
Finocchiaro, G., see Anulli, F. 515 (2003) 322
Flaminio, V., see Astier, P. 515 (2003) 800
Foglio Para, A., see Agosteo, S. 515 (2003) 589
Fontanelli, F., see Augustinus, A. 515 (2003) 782
Formenti, F., see Augustinus, A. 515 (2003) 782
Forti, F., see Anulli, F. 515 (2003) 322
Fossan, D.B., see Starosta, K. 515 (2003) 771
Fourletov, S., see Albrecht, H. 515 (2003) 155
Francke, T. and V. Peskov, Aging in gaseous photodetectors 515 (2003) 292
Fraternali, M., see Astier, P. 515 (2003) 800
Freitas, E.D.C., J.M. Cardoso, L.M.P. Fernandes, J.A.M. Lopes, J.F.C.A. Veloso and J.M.F. dos Santos, Energy linearity response of CZT detectors to X-rays in the region of the Zn, Cd and Te K-absorption edges: experimental results 515 (2003) 618
Fretwurst, E., see Kramberger, G. 515 (2003) 665
Frey, R., see Anulli, F. 515 (2003) 322
Freyberg, M.J., see Pfeffermann, E 515 (2003) 65
Froidevaux, D., see Akesson, T. 515 (2003) 166
Fukazawa, Y., see Ikagawa, T. 515 (2003) 671
Furukawa, T., K. Noda, M. Muramatsu, T. Uesugi, S. Shibuya, H. Kawai, E. Takada and S. Yamada, New approach toward optimized resonant slow-extraction 515 (2003) 853
Fushimi, K., see Ichihara, K. 515 (2003) 651
Futami, Y., see Iseki, Y. 515 (2003) 840
Fynbo, H.O.U., see Bergmann, U.C. 515 (2003) 657

Gagnon, P., see Akesson, T. 515 (2003) 166
Gaillard, J.-M., see Astier, P. 515 (2003) 800
Gallas, M.V., see Adeva, B. 515 (2003) 467
Gambaccini, M., see Bollini, D. 515 (2003) 458
Gangler, E., see Astier, P. 515 (2003) 800
Ganis, G., see Bizzeti, A. 515 (2003) 348
Ganzha, V.A., see Maev, E.M. 515 (2003) 288
Gao, S.L., see Lu, Y.R. 515 (2003) 394
Garcia, A.D., see Bollini, D. 515 (2003) 458
García, E., see González, D. 515 (2003) 634
Gaspar, C., see Augustinus, A. 515 (2003) 782
Gatto, C., see Anulli, F. 515 (2003) 322
Gavillet, P., see Augustinus, A. 515 (2003) 782
Gavrilenko, I., see Akesson, T. 515 (2003) 166
Gavrilov, G., A. Krivchitch and V. Lebedev, Application of nuclear reaction analysis for aging investigations of detectors 515 (2003) 108
Gavrilov, G., A. Krivchitch, E. Kuznetsova and V. Maleev, Space distribution of streamers in straw drift tubes 515 (2003) 278

Gavrilov, G., see Acosta, D. 515 (2003) 226
Gavrilov, G., see Ferguson, T. 515 (2003) 266
Gavrilov, G.E., see Maev, E.M. 515 (2003) 288
Ge, Y.C., see Ye, Y.L. 515 (2003) 718
Geiser, A., see Astier, P. 515 (2003) 800
Geissinger, J.D., see Barbeau, P.S. 515 (2003) 439
Geppert, D., see Astier, P. 515 (2003) 800
Gerndt, J., see Adeva, B. 515 (2003) 467
Ghigo, A., see Mazzitelli, G. 515 (2003) 524
Giacomich, R., see Adeva, B. 515 (2003) 467
Gianotti, P., see Adeva, B. 515 (2003) 467
Giardoni, M., see Adeva, B. 515 (2003) 467
Gibin, D., see Astier, P. 515 (2003) 800
Gilmore, J., see Acosta, D. 515 (2003) 226
Giubellino, P., see Bollini, D. 515 (2003) 458
Gninenko, S., see Astier, P. 515 (2003) 800
Godley, A., see Astier, P. 515 (2003) 800
Goldin, D., see Adeva, B. 515 (2003) 467
Golutvin, I., see Albrecht, H. 515 (2003) 155
Gómez, F., see Adeva, B. 515 (2003) 467
Gomez-Cadenas, J.-J., see Astier, P. 515 (2003) 800
González, D., J. Morales, S. Cebrián, E. García, I.G. Irastorza, A. Morales, A.O. de Solórzano, J. Puimedón, M.L. Sarsa, J.A. Villar, C.E. Aalseth, F.T. Avignone III, R.L. Brodzinski, W.K. Hensley, H.S. Miley, J.H. Reeves, I.V. Kirpichnikov, A.A. Vasenko, A.A. Klimenko, S.B. Osetrov, A.A. Smolnikov, S.I. Vasiliev, V.S. Pogosov and A.G. Tamanyan, Pulse-shape discrimination in the IGEX experiment 515 (2003) 634
Goorens, R., see Augustinus, A. 515 (2003) 782
Gorin, A., see Adeva, B. 515 (2003) 467
Gortchakov, O., see Adeva, B. 515 (2003) 467
Gosset, J., see Astier, P. 515 (2003) 800
Gößling, C., see Astier, P. 515 (2003) 800
Goswami, A., see Sudarshan, K. 515 (2003) 862
Göttlicher, P., see Anderhub, H. 515 (2003) 31
Gouanère, M., see Astier, P. 515 (2003) 800
Grant, A., see Astier, P. 515 (2003) 800
Grard, F., see Boulogne, I. 515 (2003) 196
Gratchev, V., see Ferguson, T. 515 (2003) 266
Grauges-Pous, E., see Anulli, F. 515 (2003) 322
Graziani, G., see Astier, P. 515 (2003) 800
Grichkevitch, Y., see Akesson, T. 515 (2003) 166
Grigson, C., see Eklund, L. 515 (2003) 415
Grybos, P., see Bollini, D. 515 (2003) 458
Gu, J., see Acosta, D. 515 (2003) 226
Guaraldo, C., see Adeva, B. 515 (2003) 467
Guglielmi, A., see Astier, P. 515 (2003) 800
Guida, R., see Abbrescia, M. 515 (2003) 342
Guilitsky, Yu., see Danilov, M. 515 (2003) 202
Gunten, H.P.V., see Anderhub, H. 515 (2003) 31
Guo, J.F., see Lu, Y.R. 515 (2003) 394
Guo, Z.Y., see Lu, Y.R. 515 (2003) 394
Gutay, L., see Acosta, D. 515 (2003) 226

Hagner, C., see Astier, P. 515 (2003) 800
Hajduk, Z., see Akesson, T. 515 (2003) 166
Hall-Wilton, R., see Bailey, D. 515 (2003) 37
Hamacher, Tu., see Lau, K. 515 (2003) 313
Hamanaka, S., see Wen, X.-Q. 515 (2003) 614
Hangarter, K., see Anderhub, H. 515 (2003) 31

Hann, F., see Acosta, D. 515 (2003) 226
Hansroul, M., see Adeva, B. 515 (2003) 467
Hara, T., see Bizen, T. 515 (2003) 850
Hartmut, R., see Acosta, D. 515 (2003) 226
Hauser, J., see Acosta, D. 515 (2003) 226
He, K., see Acosta, D. 515 (2003) 226
Henderson, R., see Openshaw, R. 515 (2003) 89
Hensley, W.K., see González, D. 515 (2003) 634
Hermann, A., see Lehmann, E.H. 515 (2003) 745
Hernando, J., see Astier, P. 515 (2003) 800
Hildebrandt , M., Aging tests with GEM-MSGCs 515 (2003) 255
Hofer, H., see Anderhub, H. 515 (2003) 31
Hofsass, H.C., see Coakley, K.J. 515 (2003) 892
Hohlmann, M., A large ultra-clean gas system with closed loop for the high-rate Outer Tracker at HERA-B . 515 (2003) 132
Hohlmann, M., Final remarks—do we need a Global Universal Aging Research & Development (GUARD) facility? 515 (2003) 372
Hohlmann, M., see Albrecht, H. 515 (2003) 155
Hohlmann, M., see Capeáns, M. 515 (2003) 140
Holt, R., see Tanaka, H. 515 (2003) 725
Holzner, A., see Anderhub, H. 515 (2003) 31
Hong, T.M., see Astier, P. 515 (2003) 800
Hönniger, F., see Kramberger, G. 515 (2003) 665
Höpfner, K., see Albrecht, H. 515 (2003) 155
Horisberger, U., see Anderhub, H. 515 (2003) 31
Hott, T., Ageing problems of the Inner Tracker of HERA-B – an example for new detectors and new effects . 515 (2003) 242
Hu, G., see Ahlen, S. 515 (2003) 446
Hubbard, D., see Astier, P. 515 (2003) 800
Hulsbergen, W., see Albrecht, H. 515 (2003) 155
Hurst, P., see Astier, P. 515 (2003) 800
Hutchcroft, D., see Souvorov, V. 515 (2003) 220
Hyett, N., see Astier, P. 515 (2003) 800

Iacopini, E., see Astier, P. 515 (2003) 800
Iaselli, G., see Abbrescia, M. 515 (2003) 342
Ichihara, K., K. Fushimi, N. Koori, S. Nakayama, K. Takahisa, S. Umehara and S. Yoshida, Highly sensitive measurement of α-rays in NaI(Tl) scintillator by pulse shape discrimination with charge-sensitive analog-to-digital converter 515 (2003) 651
Idzik, M., see Bollini, D. 515 (2003) 458
Ignatenko, M., see Acosta, D. 515 (2003) 226
Ikagawa, T., J. Kataoka, Y. Yatsu, N. Kawai, K. Mori, T. Kamae, H. Tajima, T. Mizuno, Y. Fukazawa, Y. Ishikawa, N. Kawabata and T. Inutsuka, Performance of large-area avalanche photodiode for low-energy X-rays and γ-rays scintillation detection 515 (2003) 671
Ilgner, C., see Dünnweber, W. 515 (2003) 234
Ilie, S., see Acosta, D. 515 (2003) 226
Iliescu, M., see Adeva, B. 515 (2003) 467
Inutsuka, T., see Ikagawa, T. 515 (2003) 671
Irastorza, I.G., see González, D. 515 (2003) 634
Iseki, Y., H. Mizuno, Y. Futami, T. Tomitani, T. Kanai, M. Kanazawa, A. Kitagawa, T. Murakami, T. Nishio, M. Suda, E. Urakabe, A. Yunoki and H. Sakai, Positron camera for range verification of heavy-ion radiotherapy 515 (2003) 840
Ishikawa, Y., see Ikagawa, T. 515 (2003) 671
Ispiryan, M., see Lau, K. 515 (2003) 313
Ivanov, Yu., see Acosta, D. 515 (2003) 226
Iwasaki, M., see Anulli, F. 515 (2003) 322
Iwase, H., see Yonai, S. 515 (2003) 733
Iwatani, K., see Wen, X.-Q. 515 (2003) 614

Jeong, Y.U., see Cho, S.O. 515 (2003) 402
Jia, Y., see Albrecht, H. 515 (2003) 155
Jiang, C., see Acosta, D. 515 (2003) 226
Jiang, C., see Albrecht, H. 515 (2003) 155
Jiang, D.X., see Ye, Y.L. 515 (2003) 718
Johnson, J., see Anulli, F. 515 (2003) 322
Joseph, C., see Astier, P. 515 (2003) 800
József, E., see Tam, N.C. 515 (2003) 644
Juget, F., see Astier, P. 515 (2003) 800

Kailas, S., see Kumar, U. 515 (2003) 829
Kamae, T., see Ikagawa, T. 515 (2003) 671
Kanai, T., see Iseki, Y. 515 (2003) 840
Kanazawa, M., see Iseki, Y. 515 (2003) 840
Kane, S., J. May, J. Miyamoto and I. Shipsey, An aging study of a MICROMEGAS with GEM preamplification 515 (2003) 261
Kapitza, H., see Albrecht, H. 515 (2003) 155
Kappler, S., see Altunbas, M.C. 515 (2003) 249
Karabekyan, S., see Albrecht, H. 515 (2003) 155
Karpukhin, V., see Adeva, B. 515 (2003) 467
Kashchuk, A., see Souvorov, V. 515 (2003) 220
Kataoka, J., see Ikagawa, T. 515 (2003) 671
Kawabata, N., see Ikagawa, T. 515 (2003) 671
Kawai, H., see Furukawa, T. 515 (2003) 853
Kawai, N., see Ikagawa, T. 515 (2003) 671
Ke, Z., see Albrecht, H. 515 (2003) 155
Keener, P.T., see Akesson, T. 515 (2003) 166
Kekelidze, G., see Akesson, T. 515 (2003) 166
Ketzer, B., see Altunbas, M.C. 515 (2003) 249
Khazins, D.M., see Binkley, M. 515 (2003) 53
Kim, D.E., see Bizen, T. 515 (2003) 850
Kirpichnikov, I.V., see González, D. 515 (2003) 634
Kirsanov, M., see Astier, P. 515 (2003) 800
Kiryushin, Y., see Albrecht, H. 515 (2003) 155
Kitagawa, A., see Iseki, Y. 515 (2003) 840
Kitamura, H., see Bizen, T. 515 (2003) 850
Klein, H., see Lu, Y.R. 515 (2003) 394
Klimenko, A.A., see González, D. 515 (2003) 634
Klimov, O., see Astier, P. 515 (2003) 800
Kluson, J., see Adeva, B. 515 (2003) 467
Ko, W., see Acosta, D. 515 (2003) 226
Kobayashi, M., see Adeva, B. 515 (2003) 467
Koike, T., see Starosta, K. 515 (2003) 771
Kokkas, P., see Adeva, B. 515 (2003) 467
Kokkonen, J., see Astier, P. 515 (2003) 800
Kolanoski, H., Summary of session 3: materials and gases 515 (2003) 152
Kolanoski, H., see Albrecht, H. 515 (2003) 155
Kolanoski, H., see Berkhan, K. 515 (2003) 185
Kolanoski, H., see Schreiner, A. 515 (2003) 146
Kolarov, G.V., see Stoyanov, D.V. 515 (2003) 760
Komarov, V., see Adeva, B. 515 (2003) 467
Konovalov, S., see Akesson, T. 515 (2003) 166
Koori, N., see Ichihara, K. 515 (2003) 651
Kopp, A., see Anderhub, H. 515 (2003) 31
Korpar, S., see Albrecht, H. 515 (2003) 155
Korpar, S., see Lau, K. 515 (2003) 313
Korpar, S., see škrk, D. 515 (2003) 302

Kortner, O. and C. Zupančič, Erratum to "Fitting simulated random events to experimental histograms by means of parametric models" [Nucl. Instr. and Meth. A 503 (2003) 625] . . . 515 (2003) 894
Korytov, A., see Acosta, D. . . . 515 (2003) 226
Kouznetsova, E.V., see Maev, E.M. . . . 515 (2003) 288
Kovzelev, A., see Astier, P. . . . 515 (2003) 800
Kowalski, T., see Akesson, T. . . . 515 (2003) 166
Kowalski, T.Z. and B. Mindur, A study of aging effects in the gas-monitoring proportional counters of the BAC calorimeter in the ZEUS experiment . . . 515 (2003) 60
Kowalski, T.Z. and B. Mindur, Manifestation of aging effects in gas proportional counters . . . 515 (2003) 180
Kramarenko, V.A., see Akesson, T. . . . 515 (2003) 166
Kramberger, G., D. Contarato, E. Fretwurst, F. Hönniger, G. Lindström, I. Pintilie, R. Röder, A. Schramm and J. Stahl, Superior radiation tolerance of thin epitaxial silicon detectors . . . 515 (2003) 665
Kramberger, G., see Eklund, L. . . . 515 (2003) 415
Krasnoperov, A., see Astier, P. . . . 515 (2003) 800
Kriváň, F., see Stellberger, A. . . . 515 (2003) 543
Krivchitch, A., see Ferguson, T. . . . 515 (2003) 266
Krivchitch, A., see Ferguson, T. . . . 515 (2003) 283
Krivchitch, A., see Gavrilov, G. . . . 515 (2003) 108
Krivchitch, A., see Gavrilov, G. . . . 515 (2003) 278
Krivchitch, A.G., see Maev, E.M. . . . 515 (2003) 288
Krivshich, A., see Acosta, D. . . . 515 (2003) 226
Križan, P., Summary of session 5: New aging effects . . . 515 (2003) 319
Križan, P., see Albrecht, H. . . . 515 (2003) 155
Križan, P., see Lau, K. . . . 515 (2003) 313
Križan, P., see škrk, D. . . . 515 (2003) 302
Krücker, D., see Albrecht, H. . . . 515 (2003) 155
Kruglov, V., see Adeva, B. . . . 515 (2003) 467
Kruglova, L., see Adeva, B. . . . 515 (2003) 467
Kulikov, A., see Adeva, B. . . . 515 (2003) 467
Kumar, U., G.S. Ramakrishna, A.S. Pendharkar and S. Kailas, A statistical correction method for minimization of systemic artefact in a continuous-rotate X-ray based industrial CT system . . . 515 (2003) 829
Kuptsov, A., see Adeva, B. . . . 515 (2003) 467
Kurochkin, V., see Adeva, B. . . . 515 (2003) 467
Kuroda, K.-I., see Adeva, B. . . . 515 (2003) 467
Kurosawa, T., see Yonai, S. . . . 515 (2003) 733
Kurvinen, K., J. Ojala and T. Särme, Analysis of organic compounds formed in electron avalanches in a proportional counter filled with Ar/C_2H_4 gas mixture . . . 515 (2003) 118
Kuznetsova, K., see Acosta, D. . . . 515 (2003) 226
Kuznetsova, E., see Ferguson, T. . . . 515 (2003) 266
Kuznetsova, E., see Gavrilov, G. . . . 515 (2003) 278
Kvaratschellia, T., see Danilov, M. . . . 515 (2003) 202

Lachaud, C., see Astier, P. . . . 515 (2003) 800
Lakić, B., see Astier, P. . . . 515 (2003) 800
Lakosi, L., see Tam, N.C. . . . 515 (2003) 644
Lamaze, G.P., see Coakley, K.J. . . . 515 (2003) 892
Lamberto, A., see Adeva, B. . . . 515 (2003) 467
Lanaro, A., see Adeva, B. . . . 515 (2003) 467
Lange, D., see Anulli, F. . . . 515 (2003) 322
Lanyov, A., see Albrecht, H. . . . 515 (2003) 155
Lanza, A., see Astier, P. . . . 515 (2003) 800
Lapshin, V., see Adeva, B. . . . 515 (2003) 467
Laritchev, A., see Akesson, T. . . . 515 (2003) 166
La Rotonda, L., see Astier, P. . . . 515 (2003) 800
Lau, K., M. Atiya, D. Broemmelsiek, Th. Hamacher, M. Ispiryan, S. Korpar, P. Krizan, P. Maas, J. McGill, J. Pyrlik, K. Reeves, P. Rose, J. Rosen, A.S. Schwarz, R. Schwitters and M. Staric, Test-beam aging studies of a TMAE prototype for the HERA-B RICH . . . 515 (2003) 313

Laugier, J.P., see Augustinus, A. . . . 515 (2003) 782
Laveder, M., see Astier, P. . . . 515 (2003) 800
Layter, J., see Acosta, D. . . . 515 (2003) 226
Lebedev, V., see Ferguson, T. . . . 515 (2003) 266
Lebedev, V., see Gavrilov, G. . . . 515 (2003) 108
Lednicky, R., see Adeva, B. . . . 515 (2003) 467
Lee, B.C., see Cho, S.O. . . . 515 (2003) 402
Lee, H.S., see Bizen, T. . . . 515 (2003) 850
Lee, R., see Acosta, D. . . . 515 (2003) 226
Lee, T.-Y. and J. Choi, Minimum electron beam size of a double bend lattice . . . 515 (2003) 410
Lehmann, E.H., P. Vontobel and A. Hermann, Non-destructive analysis of nuclear fuel by means of thermal and cold neutrons . . . 515 (2003) 745
Leiste, R., see Anderhub, H. . . . 515 (2003) 31
Leruste, P., see Adeva, B. . . . 515 (2003) 467
Letessier-Selvon, A., see Astier, P. . . . 515 (2003) 800
Leuschner, M.B., see Snow, W.M. . . . 515 (2003) 563
Levisandri, P., see Adeva, B. . . . 515 (2003) 467
Levtchenko, P., see Acosta, D. . . . 515 (2003) 226
Levy, J.-M., see Astier, P. . . . 515 (2003) 800
Li, D.S., see Lu, Y.R. . . . 515 (2003) 394
Li, W.G., see Lu, Y.R. . . . 515 (2003) 394
Li, X.Q., see Ye, Y.L. . . . 515 (2003) 718
Li, Z.H., see Ye, Y.L. . . . 515 (2003) 718
Liberti, B., see Aielli, G. . . . 515 (2003) 335
Lichard, P., see Akesson, T. . . . 515 (2003) 166
Lindström, G., see Kramberger, G. . . . 515 (2003) 665
Ling, T.Y., see Acosta, D. . . . 515 (2003) 226
Linssen, L., see Astier, P. . . . 515 (2003) 800
Lippi, I., see Agosteo, S. . . . 515 (2003) 589
Lista, L., see Anulli, F. . . . 515 (2003) 322
Liu, Y.Q., see Albrecht, H. . . . 515 (2003) 155
Ljubičić, A., see Astier, P. . . . 515 (2003) 800
Lobachev, E., see Ferguson, T. . . . 515 (2003) 266
Loddo, F., see Abbrescia, M. . . . 515 (2003) 342
Lohmann, W., see Anderhub, H. . . . 515 (2003) 31
Lohse, T., see Albrecht, H. . . . 515 (2003) 155
Loke, R., see Albrecht, H. . . . 515 (2003) 155
Long, J., see Astier, P. . . . 515 (2003) 800
Lopes, J.A.M., see Freitas, E.D.C. . . . 515 (2003) 618
Lorikyan, M.P., Study of counting characteristics of porous dielectric detectors of radiations . . . 515 (2003) 701
Loveless, D., see Acosta, D. . . . 515 (2003) 226
Lo Vetere, M., see Anulli, F. . . . 515 (2003) 322
Lu, C., see Anulli, F. . . . 515 (2003) 322
Lu, Y.R., C.E. Chen, J.X. Fang, S.L. Gao, J.F. Guo, Z.Y. Guo, D.S. Li, W.G. Li, O.J. Pan, X.T. Ren, Y. Wu, X.Q. Yan, J.X. Yu, M.L. Yu, U. Ratzinger, H. Deitinghoff, H. Klein and A. Schempp, Investigation of high duty factor ISR RFQ-1000 . . . 515 (2003) 394
Lucherini, V., see Adeva, B. . . . 515 (2003) 467
Luehring, F., see Akesson, T. . . . 515 (2003) 166
Lundberg, B., see Akesson, T. . . . 515 (2003) 166
Lupi, A., see Astier, P. . . . 515 (2003) 800
Lusin, S., see Acosta, D. . . . 515 (2003) 226
Lustermann, W., see Anderhub, H. . . . 515 (2003) 31
Lutterotti, L., see Wenk, H.-R. . . . 515 (2003) 575

Maas, P., see Lau, K. . . . 515 (2003) 313
Macri, M., see Anulli, F. . . . 515 (2003) 322
Madorsky, A., see Acosta, D. . . . 515 (2003) 226

Maeshima, K., see Acosta, D. 515 (2003) 226
Maev, E.M., V.A. Andreev, A.A. Fetisov, V.A. Ganzha, G.E. Gavrilov, A.G. Krivchitch, E.V. Kouznetsova, O.E. Maev, G.E. Petrov, G.N. Schapkin, G.G. Semenchuk and A.A. Vorobyov, Study of aging properties of a wire chamber operating with high-pressure hydrogen 515 (2003) 288
Maev, O.E., see Maev, E.M. 515 (2003) 288
Maggi, M., see Abbrescia, M. 515 (2003) 342
Maillard, J., see Dawson, R.B. 515 (2003) 869
Maki, T., see Adeva, B. 515 (2003) 467
Makins, N.C.R., see Tanaka, H. 515 (2003) 725
Maleev, V., see Ferguson, T. 515 (2003) 283
Maleev, V., see Gavrilov, G. 515 (2003) 278
Manara, A., see Akesson, T. 515 (2003) 166
Mandić, I., see Dawson, I. 515 (2003) 422
Mandić, I., see Eklund, L. 515 (2003) 415
Mangiarotti, A., see Bini, M. 515 (2003) 497
Mankel, R., see Albrecht, H. 515 (2003) 155
Manthos, N., see Adeva, B. 515 (2003) 467
Manuilov, I., see Adeva, B. 515 (2003) 467
Marangelli, B., see Abbrescia, M. 515 (2003) 342
Marchionni, A., see Astier, P. 515 (2003) 800
Marechal, X., see Bizen, T. 515 (2003) 850
Markina, I., see Akesson, T. 515 (2003) 166
Marshall, T., Restoring contaminated wires, removing gas contaminants, and aging studies of drift tube chambers 515 (2003) 51
Martelli, F., see Astier, P. 515 (2003) 800
Martinengo, P., see Braem, A. 515 (2003) 307
Marzari-Chiesa, A., see Bollini, D. 515 (2003) 458
Masheva, A.F., see Stoyanov, D.V. 515 (2003) 760
Matthey, C., see Acosta, D. 515 (2003) 226
Matveev, M., see Acosta, D. 515 (2003) 226
Maurel, G., see Dawson, R.B. 515 (2003) 869
Maurenzig, P.R., see Bini, M. 515 (2003) 497
May, J., see Kane, S. 515 (2003) 261
Mazzitelli, G., A. Ghigo, F. Sannibale, P. Valente and G. Vignola, Commissioning of the DAΦNE beam test facility 515 (2003) 524
Mcfarlane, K., see Akesson, T. 515 (2003) 166
McGill, J., see Lau, K. 515 (2003) 313
Méchain, X., see Astier, P. 515 (2003) 800
Medin, G., see Albrecht, H. 515 (2003) 155
Meier, K., see Stellberger, A. 515 (2003) 543
Mendiburu, J.-P., see Astier, P. 515 (2003) 800
Messener, B., see Anulli, F. 515 (2003) 322
Messi, R., see Bizzeti, A. 515 (2003) 348
Meyer, J.-P., see Astier, P. 515 (2003) 800
Mezzetto, M., see Astier, P. 515 (2003) 800
Michel, E., see Albrecht, H. 515 (2003) 155
Mikuž, M., see Eklund, L. 515 (2003) 415
Miley, H.S., see González, D. 515 (2003) 634
Mindur, B., see Kowalski, T.Z. 515 (2003) 60
Mindur, B., see Kowalski, T.Z. 515 (2003) 180
Mishra, S.R., see Astier, P. 515 (2003) 800
Mitselmakher, G., see Acosta, D. 515 (2003) 226
Mitsou, V., see Akesson, T. 515 (2003) 166
Miyachi, Y., see Tanaka, H. 515 (2003) 725
Miyamoto, J., see Barbeau, P.S. 515 (2003) 439
Miyamoto, J., see Kane, S. 515 (2003) 261
Mizuno, H., see Iseki, Y. 515 (2003) 840
Mizuno, T., see Ikagawa, T. 515 (2003) 671

Mnich, J., see Anderhub, H. 515 (2003) 31
Monge, M.R., see Anulli, F. 515 (2003) 322
Montanet, L., see Adeva, B. 515 (2003) 467
Montano, L.M., see Bollini, D. 515 (2003) 458
Moore, T., see Anulli, F. 515 (2003) 322
Moorhead, G.F., see Astier, P. 515 (2003) 800
Moraes, A., see Dawson, I. 515 (2003) 422
Morales, A., see González, D. 515 (2003) 634
Morales, J., see González, D. 515 (2003) 634
Morganti, S., see Anulli, F. 515 (2003) 322
Mori, K., see Ikagawa, T. 515 (2003) 671
Moshkin, A., see Albrecht, H. 515 (2003) 155
Most, A., see Tanaka, H. 515 (2003) 725
Mukherjee, A., see Binkley, M. 515 (2003) 53
Murakami, T., see Iseki, Y. 515 (2003) 840
Muramatsu, M., see Furukawa, T. 515 (2003) 853
Muraviev, S., see Akesson, T. 515 (2003) 166
Musico, P., see Augustinus, A. 515 (2003) 782

Nakamura, T., see Yonai, S. 515 (2003) 733
Nakayama, S., see Ichihara, K. 515 (2003) 651
Nappi, E., see Braem, A. 515 (2003) 307
Narjoux, J.-L., see Adeva, B. 515 (2003) 467
Natali, S., see Abbrescia, M. 515 (2003) 342
Nathan, A., see Tanaka, H. 515 (2003) 725
Neal, H., see Anulli, F. 515 (2003) 322
Nédélec, P., see Astier, P. 515 (2003) 800
Nefedov, Yu., see Astier, P. 515 (2003) 800
Nemenov, L., see Adeva, B. 515 (2003) 467
Neri, N., see Anulli, F. 515 (2003) 322
Neumayr, J., see Dünnweber, W. 515 (2003) 234
Newcomer, F.M., see Akesson, T. 515 (2003) 166
Nguyen-Mau, C., see Astier, P. 515 (2003) 800
Ni, J., see Albrecht, H. 515 (2003) 155
Niebuhr , C., Aging effects in the central jet chamber of the H1 experiment 515 (2003) 43
Niedermaier, O., see Stellberger, A. 515 (2003) 543
Nikitin, M., see Adeva, B. 515 (2003) 467
Nishio, T., see Iseki, Y. 515 (2003) 840
Nix, O., see Stellberger, A. 515 (2003) 543
Noda, K., see Furukawa, T. 515 (2003) 853
Nowak, S., see Albrecht, H. 515 (2003) 155
Nuzzo, S., see Abbrescia, M. 515 (2003) 342

Ogren, H., see Akesson, T. 515 (2003) 166
Oh, S.H., see Akesson, T. 515 (2003) 166
Ohsuga, H., see Tanaka, H. 515 (2003) 725
Ojala, J., see Kurvinen, K. 515 (2003) 118
Okada, K., see Adeva, B. 515 (2003) 467
Olchevskii, V., see Adeva, B. 515 (2003) 467
Olmi, A., see Bini, M. 515 (2003) 497
Olszowska, J., see Akesson, T. 515 (2003) 166
Openshaw, R. and R. Henderson, Effects of materials on aging rates in wire chambers operated with DME . . 515 (2003) 89
Orecchini, D., see Adeva, B. 515 (2003) 467
Orestano, D., see Astier, P. 515 (2003) 800
Osborne, D., see Ahlen, S. 515 (2003) 446
Osetrov, S.B., see González, D. 515 (2003) 634

Otwinowski, S., see Acosta, D. 515 (2003) 226
Ouchrif, M., see Albrecht, H. 515 (2003) 155
Owen, B.R., see Tanaka, H. 515 (2003) 725

Padilla, C., see Albrecht, H. 515 (2003) 155
Padley, P., see Acosta, D. 515 (2003) 226
Paganoni, M., see Augustinus, A. 515 (2003) 782
Paić, G., see Braem, A. 515 (2003) 307
Pal, I., see Acosta, D. 515 (2003) 226
Palano, A., see Anulli, F. 515 (2003) 322
Pan, O.J., see Lu, Y.R. 515 (2003) 394
Pang, D.Y., see Ye, Y.L. 515 (2003) 718
Paoloni, A., see Aielli, G. 515 (2003) 335
Paoloni, E., see Anulli, F. 515 (2003) 322
Paolucci, P., see Alviggi, M. 515 (2003) 328
Paolucci, P., see Anulli, F. 515 (2003) 322
Pardo, T.N., see Adeva, B. 515 (2003) 467
Pasquali, G., see Bini, M. 515 (2003) 497
Passaggio, S., see Anulli, F. 515 (2003) 322
Passaleva, G., see Bizzeti, A. 515 (2003) 348
Pastore, F., see Anulli, F. 515 (2003) 322
Pastore, F., see Astier, P. 515 (2003) 800
Pastori, E., see Aielli, G. 515 (2003) 335
Patricelli, S., see Alviggi, M. 515 (2003) 328
Patrignani, C., see Anulli, F. 515 (2003) 322
Patteri, P., see Anulli, F. 515 (2003) 322
Paus, C., see Anderhub, H. 515 (2003) 31
Pazos, A., see Adeva, B. 515 (2003) 467
Peak, L.S., see Astier, P. 515 (2003) 800
Pendharkar, A.S., see Kumar, U. 515 (2003) 829
Pennacchio, E., see Astier, P. 515 (2003) 800
Pentia, M., see Adeva, B. 515 (2003) 467
Penttilä, S.I., see Snow, W.M. 515 (2003) 563
Penzo, A., see Adeva, B. 515 (2003) 467
Perreau, J.-M., see Adeva, B. 515 (2003) 467
Peruzzi, I., see Anulli, F. 515 (2003) 322
Peshekhonov, V., see Akesson, T. 515 (2003) 166
Peskov, V., see Francke, T. 515 (2003) 292
Pessard, H., see Astier, P. 515 (2003) 800
Petrascu, C., see Adeva, B. 515 (2003) 467
Petrov, G.E., see Maev, E.M. 515 (2003) 288
Petti, R., see Astier, P. 515 (2003) 800
Pfeffermann, E., U.G. Briel and M.J. Freyberg, Design and in-orbit-performance of the position sensitive proportional counter onboard the X-ray astronomy satellite ROSAT 515 (2003) 65
Phillips, P., see Eklund, L. 515 (2003) 415
Piantelli, S., see Bini, M. 515 (2003) 497
Piccolo, D., see Alviggi, M. 515 (2003) 328
Piccolo, D., see Anulli, F. 515 (2003) 322
Piccolo, M., see Anulli, F. 515 (2003) 322
Pietra, M.D., see Alviggi, M. 515 (2003) 328
Pintilie, I., see Kramberger, G. 515 (2003) 665
Piredda, G., see Anulli, F. 515 (2003) 322
Pischalnikov, Y., see Acosta, D. 515 (2003) 226
Piuz, F., see Braem, A. 515 (2003) 307
Placci, A., see Astier, P. 515 (2003) 800
Platzer, K., see Dünnweber, W. 515 (2003) 234
Pló, M., see Adeva, B. 515 (2003) 467

Poggi, G., see Bini, M. 515 (2003) 497
Poggi, S., see Bini, M. 515 (2003) 497
Pogosov, V.S., see González, D. 515 (2003) 634
Pohl, M., see Anderhub, H. 515 (2003) 31
Pola, A., see Agosteo, S. 515 (2003) 589
Polesello, G., see Astier, P. 515 (2003) 800
Pollmann, D., see Astier, P. 515 (2003) 800
Polyarush, A., see Astier, P. 515 (2003) 800
Polychronakos, V., see Ferguson, T. 515 (2003) 266
Pomeroy, V.R., see Snow, W.M. 515 (2003) 563
Pompili, A., see Anulli, F. 515 (2003) 322
Ponta, T., see Adeva, B. 515 (2003) 467
Pop, D., see Adeva, B. 515 (2003) 467
Popkov, I.N., see Blinov, V.E. 515 (2003) 95
Popov, B., see Astier, P. 515 (2003) 800
Pose, D., see Albrecht, H. 515 (2003) 155
Poulsen, C., see Astier, P. 515 (2003) 800
Prino, F., see Bollini, D. 515 (2003) 458
Prokofiev, O., see Acosta, D. 515 (2003) 226
Pugliese, G., see Abbrescia, M. 515 (2003) 342
Puimedón, J., see González, D. 515 (2003) 634
Pujari, P.K., see Sudarshan, K. 515 (2003) 862
Pyrlik, J., see Lau, K. 515 (2003) 313

Radford, D.C., see Starosta, K. 515 (2003) 771
Rahal, G., see Anderhub, H. 515 (2003) 31
Ramakrishna, G.S., see Kumar, U. 515 (2003) 829
Ramello, L., see Bollini, D. 515 (2003) 458
Ranieri, A., see Abbrescia, M. 515 (2003) 342
Rappazzo, G.F., see Adeva, B. 515 (2003) 467
Ratcliff, B., see Cohen-Tanugi, J. 515 (2003) 680
Ratti, S.P., see Abbrescia, M. 515 (2003) 342
Ratzinger, U., see Lu, Y.R. 515 (2003) 394
Razmyslovich, V., see Acosta, D. 515 (2003) 226
Reeder, D., see Acosta, D. 515 (2003) 226
Reeves, J.H., see González, D. 515 (2003) 634
Reeves, K., see Lau, K. 515 (2003) 313
Rembser, C., see Akesson, T. 515 (2003) 166
Ren, X.T., see Lu, Y.R. 515 (2003) 394
Ressing, D., see Albrecht, H. 515 (2003) 155
Rhone, O., see Akesson, T. 515 (2003) 166
Riazantsev, A., see Adeva, B. 515 (2003) 467
Riccardi, C., see Abbrescia, M. 515 (2003) 342
Rich, D.R., see Snow, W.M. 515 (2003) 563
Rico, J., see Astier, P. 515 (2003) 800
Riegler, W., see Souvorov, V. 515 (2003) 220
Riemann, P., see Astier, P. 515 (2003) 800
Roberts, J., see Acosta, D. 515 (2003) 226
Robutti, E., see Anulli, F. 515 (2003) 322
Roda, C., see Astier, P. 515 (2003) 800
Röder, R., see Kramberger, G. 515 (2003) 665
Rodriguez, A.E.C., see Bollini, D. 515 (2003) 458
Rodriguez, J.M., see Adeva, B. 515 (2003) 467
Romaniouk, A., see Akesson, T. 515 (2003) 166
Romano, F., see Abbrescia, M. 515 (2003) 342
Romero, A., see Adeva, B. 515 (2003) 467
Ronning, C., see Coakley, K.J. 515 (2003) 892

Roodman, A., see Anulli, F. 515 (2003) 322
Ropelewski, L., see Altunbas, M.C. 515 (2003) 249
Rose, P., see Lau, K. 515 (2003) 313
Rosen, J., see Lau, K. 515 (2003) 313
Röser, U., see Anderhub, H. 515 (2003) 31
Rubbia, A., see Astier, P. 515 (2003) 800
Rust, D.R., see Akesson, T. 515 (2003) 166
Rykalin, V., see Adeva, B. 515 (2003) 467

Saborido, J., see Adeva, B. 515 (2003) 467
Sáfár, J., see Tam, N.C. 515 (2003) 644
Sakai, H., see Iseki, Y. 515 (2003) 840
Salvatore, F., see Astier, P. 515 (2003) 800
Sannibale, F., see Mazzitelli, G. 515 (2003) 524
Sannino, M., see Augustinus, A. 515 (2003) 782
Santamarina, C., see Adeva, B. 515 (2003) 467
Santonico, R., see Aielli, G. 515 (2003) 335
Santovetti, E., see Bizzeti, A. 515 (2003) 348
Santroni, A., see Anulli, F. 515 (2003) 322
Sarazin, X., see Cohen-Tanugi, J. 515 (2003) 680
Särme, T., see Kurvinen, K. 515 (2003) 118
Sarsa, M.L., see González, D. 515 (2003) 634
Sassowsky, M., see Anderhub, H. 515 (2003) 31
Sauli, F., Fundamental understanding of aging processes: review of the workshop results 515 (2003) 358
Sauli, F., see Altunbas, M.C. 515 (2003) 249
Saveliev, V., see Albrecht, H. 515 (2003) 155
Schacher, J., see Adeva, B. 515 (2003) 467
Schäfer, C., see Anderhub, H. 515 (2003) 31
Schahmaneche, K., see Astier, P. 515 (2003) 800
Schapkin, G.N., see Maev, E.M. 515 (2003) 288
Schegelsky, V., see Akesson, T. 515 (2003) 166
Schempp, A., see Lu, Y.R. 515 (2003) 394
Schipunov, L., see Acosta, D. 515 (2003) 226
Schipunov, L., see Ferguson, T. 515 (2003) 266
Schmidt, B., Recommendations for building and testing the next generation of gaseous detectors 515 (2003) 364
Schmidt, B., see Albrecht, H. 515 (2003) 155
Schmidt, B., see Astier, P. 515 (2003) 800
Schmidt, B., see Capeáns, M. 515 (2003) 140
Schmidt, B., see Souvorov, V. 515 (2003) 220
Schmidt, Th., see Astier, P. 515 (2003) 800
Schmidt-Kärst, A.S., see Anderhub, H. 515 (2003) 31
Schmidt-Parzefall, W., see Albrecht, H. 515 (2003) 155
Schmitt, K., see Stellberger, A. 515 (2003) 543
Schmitz, P., see Anderhub, H. 515 (2003) 31
Schneider, T., see Souvorov, V. 515 (2003) 220
Schramm, A., see Kramberger, G. 515 (2003) 665
Schreiner, A., G. Bohm, H. Kolanoski and M. Walter, Humidity dependence of anode corrosion in HERA-B Outer Tracker Chambers operated with $Ar/CF_4/CO_2$ 515 (2003) 146
Schreiner, A., see Albrecht, H. 515 (2003) 155
Schreiner, A., see Berkhan, K. 515 (2003) 185
Schuetz, C.P., see Adeva, B. 515 (2003) 467
Schulz, A., see Ahlen, S. 515 (2003) 446
Schwanke, U., see Albrecht, H. 515 (2003) 155
Schwanke, U., see Berkhan, K. 515 (2003) 185
Schwarz, A.S., Summary of session 4: Classical Aging 515 (2003) 239
Schwarz, A.S., see Albrecht, H. 515 (2003) 155
Schwarz, A.S., see Lau, K. 515 (2003) 313

Schwiening, J., see Cohen-Tanugi, J. 515 (2003) 680
Schwitters, R., see Lau, K. 515 (2003) 313
Schyns, E., see Braem, A. 515 (2003) 307
Sciacca, C., see Alviggi, M. 515 (2003) 328
Sciacca, C., see Anulli, F. 515 (2003) 322
Seike, T., see Bizen, T. 515 (2003) 850
Sekhniaidze, G., see Alviggi, M. 515 (2003) 328
Semenchuk, G.G., see Maev, E.M. 515 (2003) 288
Sevior, M., see Astier, P. 515 (2003) 800
Shank, J., see Ahlen, S. 515 (2003) 446
Sharapov, E.I., see Snow, W.M. 515 (2003) 563
Shibata, T.-A., see Tanaka, H. 515 (2003) 725
Shibuya, S., see Furukawa, T. 515 (2003) 853
Shih, D., see Astier, P. 515 (2003) 800
Shipsey, I., see Barbeau, P.S. 515 (2003) 439
Shipsey, I., see Kane, S. 515 (2003) 261
Shizuma, K., see Wen, X.-Q. 515 (2003) 614
Shmeleva, A., see Akesson, T. 515 (2003) 166
Siccama, I., see Albrecht, H. 515 (2003) 155
Sidorov, A., see Adeva, B. 515 (2003) 467
Sillou, D., see Astier, P. 515 (2003) 800
Silva, J., see Dawson, R.B. 515 (2003) 869
Simon, F., see Altunbas, M.C. 515 (2003) 249
Sinev, N., see Anulli, F. 515 (2003) 322
Sitta, M., see Bollini, D. 515 (2003) 458
Škrk, D., S. Korpar, P. Križan, A. Stanovnik and M. Starič, Study of in situ heating of aged anode wires . . . 515 (2003) 302
Smirnov, I., see Acosta, D. 515 (2003) 226
Smirnov, S., see Akesson, T. 515 (2003) 166
Smirnova, L.N., see Akesson, T. 515 (2003) 166
Smolik, J., see Adeva, B. 515 (2003) 467
Smolnikov, A.A., see González, D. 515 (2003) 634
Snow, W.M., W.S. Wilburn, J.D. Bowman, M.B. Leuschner, S.I. Penttilä, V.R. Pomeroy, D.R. Rich, E.I. Sharapov and V.W. Yuan, Progress toward a new measurement of the parity violating asymmetry in $\vec{n} + p \rightarrow d + \gamma$ 515 (2003) 563
Soha, A., see Anulli, F. 515 (2003) 322
Soler, F.J.P., see Astier, P. 515 (2003) 800
Solunin, S., see Albrecht, H. 515 (2003) 155
Somov, S., see Albrecht, H. 515 (2003) 155
Sosnovtsev, V., see Akesson, T. 515 (2003) 166
Souvorov, V., T. Schneider, B. Schmidt, W. Riegler, A. Kashchuk and D. Hutchcroft, First results of an aging test of a full scale MWPC prototype for the LHCb muon system 515 (2003) 220
Souvorov, V., see Acosta, D. 515 (2003) 226
Souvorov, V., see Albrecht, H. 515 (2003) 155
Souvorov, V., see Berkhan, K. 515 (2003) 185
Sozzi, G., see Astier, P. 515 (2003) 800
Špalek, J., see Stellberger, A. 515 (2003) 543
Spengler, J., Summary of session 2: experience with large systems 515 (2003) 70
Spickermann, T., see Anderhub, H. 515 (2003) 31
Spiridonov, A., see Albrecht, H. 515 (2003) 155
Stahl, J., see Kramberger, G. 515 (2003) 665
Stanovnik, A., see škrk, D. 515 (2003) 302
Starič, M., see Albrecht, H. 515 (2003) 155
Starič, M., see Lau, K. 515 (2003) 313
Starič, M., see škrk, D. 515 (2003) 302
Starosta, K., D.B. Fossan, T. Koike, C. Vaman, D.C. Radford and C.J. Chiara, Background subtraction for Doppler-shift attenuation and angular correlation measurements with multi-detector Ge arrays 515 (2003) 771
Stasko, J., see Acosta, D. 515 (2003) 226

Steele, D., see Astier, P. 515 (2003) 800
Stefanini, A.A., see Bini, M. 515 (2003) 497
Stegmann, C., see Albrecht, H. 515 (2003) 155
Stegmann, C., see Berkhan, K. 515 (2003) 185
Steinacher, M., see Adeva, B. 515 (2003) 467
Steinkamp, O., see Albrecht, H. 515 (2003) 155
Stellberger, A., J. Ferencei, F. Kriváň, K. Meier, O. Niedermaier, O. Nix, K. Schmitt, J. Špalek, J. Stiewe and M. Weber, The VLQ calorimeter of H1 at HERA: a highly compact device for measurements of electrons and photons under very small scattering angles 515 (2003) 543
Stiegler, U., see Astier, P. 515 (2003) 800
Stiewe, J., see Stellberger, A. 515 (2003) 543
Stipčević, M., see Astier, P. 515 (2003) 800
Stolarczyk, T., see Astier, P. 515 (2003) 800
Storm, D., see Anulli, F. 515 (2003) 322
Stoyanov, D.V., A.F. Masheva, O.I. Vankov and G.V. Kolarov, Multipulse time of flight technique of variable resolution based on linear processing of count pulses 515 (2003) 760
Straessner, A., see Anderhub, H. 515 (2003) 31
Suda, M., see Iseki, Y. 515 (2003) 840
Sudarshan, K., P.K. Pujari and A. Goswami, Effect of instrumental instability and detector parameters in positron annihilation Coincidence Doppler Broadening measurements: a Monte Carlo simulation study . . 515 (2003) 862
Sun, H., see Acosta, D. 515 (2003) 226
Sutchkov, S., see Akesson, T. 515 (2003) 166
Suter, H., see Anderhub, H. 515 (2003) 31
Swientek, K., see Bollini, D. 515 (2003) 458
Sytnik, V., see Acosta, D. 515 (2003) 226
Szczesny, H., see Anderhub, H. 515 (2003) 31

Taccetti, N., see Bini, M. 515 (2003) 497
Tajima, H., see Ikagawa, T. 515 (2003) 671
Takada, E., see Furukawa, T. 515 (2003) 853
Takahisa, K., see Ichihara, K. 515 (2003) 651
Takeutchi, F., see Adeva, B. 515 (2003) 467
Tam, N.C., J. Zsigrai, L. Lakosi, E. József and J. Sáfár, Non-destructive analysis of low-enriched and natural U samples by γ-spectrometry 515 (2003) 644
Tamanyan, A.G., see González, D. 515 (2003) 634
Tan, H. and T.A. DeVol, Monte Carlo modeling of heterogeneous scintillation flow-cell detectors 515 (2003) 624
Tanaka, H., B. Bains, M. Bouwhuis, R. Holt, N.C.R. Makins, Y. Miyachi, A. Most, A. Nathan, H. Ohsuga, B.R. Owen, T.-A. Shibata and S. Williamson, A gain monitoring system with a Nd:YAG laser for the photomultipliers of the HERMES experiment 515 (2003) 725
Tanaka, T., see Bizen, T. 515 (2003) 850
Tarasov, A., see Adeva, B. 515 (2003) 467
Tareb-Reyes, M., see Astier, P. 515 (2003) 800
Tartarelli, F., see Akesson, T. 515 (2003) 166
Tauscher, L., see Adeva, B. 515 (2003) 467
Taylor, G.N., see Astier, P. 515 (2003) 800
Tchernjatin, V., see Ferguson, T. 515 (2003) 266
Tedeschi, D., see Wojtsekhowski, B. 515 (2003) 605
Temnykh, A.B., Vibrating wire apparatus for periodic magnetic structure measurement 515 (2003) 387
Tengblad, O., see Bergmann, U.C. 515 (2003) 657
Terentyev, N., see Acosta, D. 515 (2003) 226
Tereshchenko, V., see Astier, P. 515 (2003) 800
Tesch, N., see Albrecht, H. 515 (2003) 155
Tikhomirov, I., see Danilov, M. 515 (2003) 202
Tikhomirov, V., see Akesson, T. 515 (2003) 166
Titov, M., see Danilov, M. 515 (2003) 202
Tobar, M.J., see Adeva, B. 515 (2003) 467
Tomitani, T., see Iseki, Y. 515 (2003) 840

Toropin, A., see Astier, P. 515 (2003) 800
Torre, P., see Abbrescia, M. 515 (2003) 342
Tosi, S., see Anulli, F. 515 (2003) 322
Touchard, A.-M., see Astier, P. 515 (2003) 800
Tovey, S.N., see Astier, P. 515 (2003) 800
Tran, M.-T., see Astier, P. 515 (2003) 800
Triantis, F., see Adeva, B. 515 (2003) 467
Tripathi, M., see Acosta, D. 515 (2003) 226
Trusov, S., see Adeva, B. 515 (2003) 467
Tsakov, I., see Albrecht, H. 515 (2003) 155
Tsesmelis, E., see Astier, P. 515 (2003) 800

Uesugi, T., see Furukawa, T. 515 (2003) 853
Ulrichs, J., see Astier, P. 515 (2003) 800
Umehara, S., see Ichihara, K. 515 (2003) 651
Urakabe, E., see Iseki, Y. 515 (2003) 840
Utkin, V., see Adeva, B. 515 (2003) 467
Uwamino, Y., see Yonai, S. 515 (2003) 733
Uwer, U., see Albrecht, H. 515 (2003) 155
Uwer, U., see Berkhan, K. 515 (2003) 185

Vacavant, L., see Astier, P. 515 (2003) 800
Valdata-Nappi, M., see Astier, P. 515 (2003) 800
Valente, P., see Mazzitelli, G. 515 (2003) 524
Valenti, G., see Augustinus, A. 515 (2003) 782
Valuev, V., see Astier, P. 515 (2003) 800
Vaman, C., see Starosta, K. 515 (2003) 771
Van Berg, R., see Akesson, T. 515 (2003) 166
van der Hagen, T.H.J.J., see de Haan, V.O. 515 (2003) 881
van der Hagen, T.H.J.J., see de Haan, V.O. 515 (2003) 886
Vankov, O.I., see Stoyanov, D.V. 515 (2003) 760
Vannucci, F., see Astier, P. 515 (2003) 800
Vanzi, E., see Bini, M. 515 (2003) 497
Varvell, K.E., see Astier, P. 515 (2003) 800
Vasenko, A.A., see González, D. 515 (2003) 634
Vasiliev, S.I., see González, D. 515 (2003) 634
Vassiliev, S., see Albrecht, H. 515 (2003) 155
Vassilieva, L., see Akesson, T. 515 (2003) 166
Vavilov, S., see Acosta, D. 515 (2003) 226
Va'vra, J., see Anulli, F. 515 (2003) 322
Va'vra, J., see Cohen-Tanugi, J. 515 (2003) 680
Va'vra, J., Physics and chemistry of aging – early developments 515 (2003) 1
Va'vra, J., Summary of session 6: aging effects in RPC detectors 515 (2003) 354
Vázquez, P., see Adeva, B. 515 (2003) 467
Veloso, J.F.C.A., see Freitas, E.D.C. 515 (2003) 618
Veltri, M., see Astier, P. 515 (2003) 800
Veltri, M., see Bizzeti, A. 515 (2003) 348
Vercesi, V., see Astier, P. 515 (2003) 800
Vidal-Sitjes, G., see Astier, P. 515 (2003) 800
Vieira, J.-M., see Astier, P. 515 (2003) 800
Viertel, G., see Anderhub, H. 515 (2003) 31
Vignola, G., see Mazzitelli, G. 515 (2003) 524
Villar, J.A., see González, D. 515 (2003) 634
Vinogradova, T., see Astier, P. 515 (2003) 800
Vitulo, P., see Abbrescia, M. 515 (2003) 342
Vlachos, S., see Adeva, B. 515 (2003) 467

Vlahovic, B., see Wojtsekhowski, B. 515 (2003) 605
Vogel, S., see Wenk, H.-R. 515 (2003) 575
Vogt, H., see Anderhub, H. 515 (2003) 31
Volkov, S., see Acosta, D. 515 (2003) 226
Volpe, D.D., see Alviggi, M. 515 (2003) 328
von der Mey, M., see Acosta, D. 515 (2003) 226
Vontobel, P., see Lehmann, E.H. 515 (2003) 745
Vorobyov, A., see Acosta, D. 515 (2003) 226
Vorobyov, A.A., see Maev, E.M. 515 (2003) 288
Vorobyov, I., see Acosta, D. 515 (2003) 226
Vukotic, I., see Albrecht, H. 515 (2003) 155

Wagner, R.L., see Binkley, M. 515 (2003) 53
Waldmeier, S., see Anderhub, H. 515 (2003) 31
Walter, M., see Albrecht, H. 515 (2003) 155
Walter, M., see Berkhan, K. 515 (2003) 185
Walter, M., see Schreiner, A. 515 (2003) 146
Wang, C., see Akesson, T. 515 (2003) 166
Wang, J.J., see Albrecht, H. 515 (2003) 155
Wang, L., see Acosta, D. 515 (2003) 226
Wang, Q.J., see Ye, Y.L. 515 (2003) 718
Wang, Y.M., see Albrecht, H. 515 (2003) 155
Waysand, G., see Dawson, R.B. 515 (2003) 869
Weber, F.V., see Astier, P. 515 (2003) 800
Weber, M., see Anderhub, H. 515 (2003) 31
Weber, M., see Stellberger, A. 515 (2003) 543
Weisse, T., see Astier, P. 515 (2003) 800
Wen, X.-Q., K. Iwatani, S. Hamanaka and K. Shizuma, The jump transition of the GM mode in a gas counter 515 (2003) 614
Wenk, H.-R., L. Lutterotti and S. Vogel, Texture analysis with the new HIPPO TOF diffractometer 515 (2003) 575
Wheadon, R., see Bollini, D. 515 (2003) 458
Wiacek, P., see Bollini, D. 515 (2003) 458
Wienemann, P., see Anderhub, H. 515 (2003) 31
Wilburn, W.S., see Snow, W.M. 515 (2003) 563
Williams, H.H., see Akesson, T. 515 (2003) 166
Williamson, S., see Tanaka, H. 515 (2003) 725
Wilson, F.F., see Astier, P. 515 (2003) 800
Winton, L.J., see Astier, P. 515 (2003) 800
Wisniewski, W., see Anulli, F. 515 (2003) 322
Wojtsekhowski, B., D. Tedeschi and B. Vlahovic, A pair polarimeter for linearly polarized high-energy photons 515 (2003) 605
Wright, D., see Anulli, F. 515 (2003) 322
Wu, Y., see Lu, Y.R. 515 (2003) 394
Wurth, R., see Albrecht, H. 515 (2003) 155

Xie, Y., see Anulli, F. 515 (2003) 322
Xu, Q., see Ahlen, S. 515 (2003) 446

Yabsley, B.D., see Astier, P. 515 (2003) 800
Yamada, S., see Furukawa, T. 515 (2003) 853
Yan, X.Q., see Lu, Y.R. 515 (2003) 394
Yang, J., see Albrecht, H. 515 (2003) 155
Yang, R., see Barbeau, P.S. 515 (2003) 439
Yarba, V., see Acosta, D. 515 (2003) 226
Yashima, H., see Yonai, S. 515 (2003) 733
Yasuda, H., New insights into aging phenomena from plasma chemistry 515 (2003) 15
Yatsu, Y., see Ikagawa, T. 515 (2003) 671
Yazkov, V., see Adeva, B. 515 (2003) 467

Ye, Y.L., Z.Y. Di, Z.H. Li, Q.J. Wang, T. Zheng, T. Chen, D.X. Jiang, Y.C. Ge, D.Y. Pang and X.Q. Li, Study and application of low pressure multi-wire proportional chambers 515 (2003) 718
Yonai, S., T. Kurosawa, H. Iwase, H. Yashima, Y. Uwamino and T. Nakamura, Measurement of neutrons from thick Fe target bombarded by 210 MeV protons 515 (2003) 733
Yoshida, S., see Ichihara, K. 515 (2003) 651
Yoshimura, Y., see Adeva, B. 515 (2003) 467
Yu, J.X., see Lu, Y.R. 515 (2003) 394
Yu, M.L., see Lu, Y.R. 515 (2003) 394
Yuan, V.W., see Snow, W.M. 515 (2003) 563
Yunoki, A., see Iseki, Y. 515 (2003) 840
Yushkov, A.N., see Blinov, V.E. 515 (2003) 95

Zaccone, H., see Astier, P. 515 (2003) 800
Zaitsev, Yu., see Danilov, M. 515 (2003) 202
Zhabitsky, M., see Adeva, B. 515 (2003) 467
Zheng, T., see Ye, Y.L. 515 (2003) 718
Zheng, Z., see Albrecht, H. 515 (2003) 155
Zhou, B., see Ahlen, S. 515 (2003) 446
Zhou, L., see Acosta, D. 515 (2003) 226
Zhu, Z., see Acosta, D. 515 (2003) 226
Zhu, Z., see Albrecht, H. 515 (2003) 155
Zimmermann, R., see Albrecht, H. 515 (2003) 155
Zotto, P., see Agosteo, S. 515 (2003) 589
Zrelov, P., see Adeva, B. 515 (2003) 467
Zsigrai, J., see Tam, N.C. 515 (2003) 644
Zuber, K., see Astier, P. 515 (2003) 800
Zupančič, C., see Kortner, O. 515 (2003) 894

Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Nuclear Instruments and Methods in Physics Research A 515 (2003) 917–924
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH Section A
www.elsevier.com/locate/nima

Subject Index

NuFact 2001
Proceedings of the International Workshop on
Aging Phenomena in Gaseous Detectors
DESY, Hamburg, Germany
October 2–5, 2001

Editors: Marcus Hohlmann, Cristobal Padilla, Norbert Tesch, Maxim Titov

Session 1: Introduction

Physics and chemistry of aging – early developments, J. Va'vra 515 (2003) 1

New insights into aging phenomena from plasma chemistry, H. Yasuda 515 (2003) 15

Session 2: Experience with large systems

Experience with the L3 vertex drift chamber at LEP, H. Anderhub, F. Beissel, B. Betev, A. Biland, A. Böhm, D. Bourilkov, C. Camps, V. Commichau, L. Djambazov, P. Göttlicher, K. Hangarter, H. Hofer, A. Holzner, U. Horisberger, A. Kopp, R. Leiste, W. Lohmann, W. Lustermann, J. Mnich, C. Paus, M. Pohl, G. Rahal, U. Röser, M. Sassowsky, C. Schäfer, A.S. Schmidt-Kärst, P. Schmitz, T. Spickermann, A. Straessner, H. Suter, H. Szczesny, G. Viertel, H. Vogt, H.P.V. Gunten, S. Waldmeier, M. Weber and P. Wienemann 515 (2003) 31

Experience with the ZEUS central tracking detector, D. Bailey and R. Hall-Wilton 515 (2003) 37

Aging effects in the central jet chamber of the H1 experiment, C. Niebuhr 515 (2003) 43

Restoring contaminated wires, removing gas contaminants, and aging studies of drift tube chambers, T. Marshall 515 (2003) 50

Aging in large CDF tracking chambers, M. Binkley, R.L. Wagner, A. Mukherjee, D. Ambrose, G. Bauer, D.M. Khazins and M. Atac 515 (2003) 53

A study of aging effects in the gas-monitoring proportional counters of the BAC calorimeter in the ZEUS experiment, T.Z. Kowalski and B. Mindur 515 (2003) 60

Design and in-orbit-performance of the position sensitive proportional counter onboard the X-ray astronomy satellite ROSAT, E. Pfeffermann, U.G. Briel and M.J. Freyberg 515 (2003) 65

Summary of session 2: experience with large systems, J. Spengler 515 (2003) 70

Session 3: Materials and gases

Aging and materials: lessons for detectors and gas systems, M. Capeans 515 (2003) 73

doi:10.1016/S0168-9002(03)02782-7

Effects of materials on aging rates in wire chambers operated with DME, R. Openshaw and R. Henderson 515 (2003) 89

Aging measurements in wire chambers, V.E. Blinov, I.N. Popkov and A.N. Yushkov 515 (2003) 95

Application of nuclear reaction analysis for aging investigations of detectors, G. Gavrilov, A. Krivchitch and V. Lebedev 515 (2003) 108

Analysis of organic compounds formed in electron avalanches in a proportional counter filled with Ar/C_2H_4 gas mixture, K. Kurvinen, J. Ojala and T. Särme 515 (2003) 118

Gas support systems for hadronic high-rate detectors—the example of the Inner Tracker of HERA-B, H.-B. Dreis 515 (2003) 126

A large ultra-clean gas system with closed loop for the high-rate Outer Tracker at HERA-B, M. Hohlmann 515 (2003) 132

A long-term aging study of honeycomb drift tubes for the HERA-B Outer Tracker using a circulated and purified CF_4 gas mixture, M. Capeáns, K. Dehmelt, M. Hohlmann and B. Schmidt 515 (2003) 140

Humidity dependence of anode corrosion in HERA-B Outer Tracker Chambers operated with $Ar/CF_4/CO_2$, A. Schreiner, G. Bohm, H. Kolanoski and M. Walter 515 (2003) 146

Summary of session 3: materials and gases, H. Kolanoski 515 (2003) 152

Session 4: Classical aging

Aging studies for the large honeycomb drift tube system of the Outer Tracker of HERA-B, H. Albrecht, Th.S. Bauer, M. Beck, A. Belkov, K. Berkhan, G. Bohm, M. Bruinsma, T. Buran, M. Capeans, J. Chamanina, B.X. Chen, H. Deckers, K. Dehmelt, X. Dong, R. Eckmann, D. Emelianov, S. Fourletov, I. Golutvin, M. Hohlmann, K. Höpfner, W. Hulsbergen, Y. Jia, C. Jiang, H. Kapitza, S. Karabekyan, Z. Ke, Y. Kiryushin, H. Kolanoski, S. Korpar, P. Križan, D. Krücker, A. Lanyov, Y.Q. Liu, T. Lohse, R. Loke, R. Mankel, G. Medin, E. Michel, A. Moshkin, J. Ni, S. Nowak, M. Ouchrif, C. Padilla, D. Pose, D. Ressing, V. Saveliev, B. Schmidt, W. Schmidt-Parzefall, A. Schreiner, U. Schwanke, A.S. Schwarz, I. Siccama, S. Solunin, S. Somov, V. Souvorov, A. Spiridonov, M. Starič, C. Stegmann, O. Steinkamp, N. Tesch, I. Tsakov, U. Uwer, S. Vassiliev, I. Vukotic, M. Walter, J.J. Wang, Y.M. Wang, R. Wurth, J. Yang, Z. Zheng, Z. Zhu and R. Zimmermann 515 (2003) 155

Aging studies for the ATLAS Transition Radiation Tracker (TRT), T. Akesson, E. Barberio, V. Bondarenko, M. Capeans, A. Catinaccio, P. Cwetanski, H. Danielsson, F. Dittus, B. Dolgoshein, N. Dressnandt, W.L. Ebenstein, P. Eerola, P. Farthouat, O. Fedin, D. Froidevaux, I. Gavrilenko, Y. Grichkevitch, P. Gagnon, Z. Hajduk, P.T. Keener, G. Kekelidze, S. Konovalov, T. Kowalski, V.A. Kramarenko, A. Laritchev, P. Lichard, B. Lundberg, F. Luehring, I. Markina, A. Manara, K. Mcfarlane, V. Mitsou, S. Muraviev, F.M. Newcomer, H. Ogren, S.H. Oh, J. Olszowska, V. Peshekhonov, C. Rembser, A. Romaniouk, O. Rhone, D.R. Rust, V. Schegelsky, A. Shmeleva, S. Smirnov, L.N. Smirnova, V. Sosnovtsev, S. Sutchkov, F. Tartarelli, V. Tikhomirov, R. Van Berg, L. Vassilieva, C. Wang and H.H. Williams 515 (2003) 166

Manifestation of aging effects in gas proportional counters, T.Z. Kowalski and B. Mindur 515 (2003) 180

Observations on cathode aging (Malter effect) in honeycomb drift chambers under high irradiation load, K. Berkhan, G. Bohm, H. Kolanoski, A. Schreiner, U. Schwanke, V. Souvorov, C. Stegmann, U. Uwer and M. Walter 515 (2003) 185

Additives that prevent or reverse cathode aging in drift chambers with helium–isobutane gas, A.M. Boyarski 515 (2003) 190

Aging tests of MSGC detectors, I. Boulogne, E. Daubie, F. Defontaines and F. Grard 515 (2003) 196

Aging studies for the muon detector of HERA-B, M. Danilov, Yu. Guilitsky, T. Kvaratschellia, I. Tikhomirov, M. Titov and Yu. Zaitsev 515 (2003) 202

First results of an aging test of a full scale MWPC prototype for the LHCb muon system, V. Souvorov, T. Schneider, B. Schmidt, W. Riegler, A. Kashchuk and D. Hutchcroft 515 (2003) 220

Aging tests of full-scale CMS muon cathode strip chambers, D. Acosta, G. Apollinari, K. Arisaka, N. Bondar, R. Breedon, A. Bujak, B. Bylsma, N. Chester, R. Clare, D. Cline, R. Cousins, T. Cox, S. Dolinsky, S. Durkin, D. Eartly, Yu. Ivanov, T. Ferguson, G. Gavrilov, J. Gilmore, J. Gu, L. Gutay, F. Hann, R. Hartmut, J. Hauser, K. He, M. Ignatenko, S. Ilie, C. Jiang, W. Ko, A. Korytov, A. Krivshich, K. Kuznetsova, J. Layter, R. Lee, P. Levtchenko, T.Y. Ling, D. Loveless, S. Lusin, K. Maeshima, A. Madorsky, C. Matthey, M. Matveev, M. von der Mey, G. Mitselmakher, S. Otwinowski, P. Padley, I. Pal, Yu. Pischalnikov, O. Prokofiev, V. Razmyslovich, D. Reeder, J. Roberts, L. Schipunov, I. Smirnov, V. Souvorov, J. Stasko, H. Sun, V. Sytnik, N. Terentyev, M. Tripathi, S. Vavilov, S. Volkov, A. Vorobyov, I. Vorobyov, L. Wang, V. Yarba, L. Zhou and Z. Zhu 515 (2003) 226

Irradiation response of straw drift tubes, W. Dünnweber, C. Ilgner, J. Neumayr and K. Platzer 515 (2003) 234

Summary of session 4: Classical Aging, A.S. Schwarz 515 (2003) 239

Session 5: New aging effects

Ageing problems of the Inner Tracker of HERA-B – an example for new detectors and new effects, T. Hott 515 (2003) 242

Aging measurements with the Gas Electron Multiplier (GEM), M.C. Altunbas, K. Dehmelt, S. Kappler, B. Ketzer, L. Ropelewski, F. Sauli and F. Simon 515 (2003) 249

Aging tests with GEM-MSGCs, M. Hildebrandt 515 (2003) 255

An aging study of a MICROMEGAS with GEM preamplification, S. Kane, J. May, J. Miyamoto and I. Shipsey 515 (2003) 261

Swelling phenomena in anode wires aging under a high accumulated dose, T. Ferguson, G. Gavrilov, V. Gratchev, J.M. Dalin, A. Krivchitch, E. Kuznetsova, V. Lebedev, E. Lobachev, V. Polychronakos, L. Schipunov and V. Tchernjatin 515 (2003) 266

Space distribution of streamers in straw drift tubes, G. Gavrilov, A. Krivchitch, E. Kuznetsova and V. Maleev 515 (2003) 278

Gas gain and space charge effects in aging tests of gaseous detectors, T. Ferguson, A. Krivchitch and V. Maleev 515 (2003) 283

Study of aging properties of a wire chamber operating with high-pressure hydrogen, E.M. Maev, V.A. Andreev, A.A. Fetisov, V.A. Ganzha, G.E. Gavrilov, A.G. Krivchitch, E.V. Kouznetsova, O.E. Maev, G.E. Petrov, G.N. Schapkin, G.G. Semenchuk and A.A. Vorobyov 515 (2003) 288

Aging in gaseous photodetectors, T. Francke and V. Peskov 515 (2003) 292

Study of in situ heating of aged anode wires, D. Škrk, S. Korpar, P. Križan, A. Stanovnik and M. Starič . . . 515 (2003) 302

Aging of large-area CsI photocathodes for the ALICE HMPID prototypes, A. Braem, M. Davenport, A. Di Mauro, P. Martinengo, E. Nappi, G. Paić, F. Piuz and E. Schyns 515 (2003) 307

Test-beam aging studies of a TMAE prototype for the HERA-B RICH, K. Lau, M. Atiya, D. Broemmelsiek, Th. Hamacher, M. Ispiryan, S. Korpar, P. Krizan, P. Maas, J. McGill, J. Pyrlik, K. Reeves, P. Rose, J. Rosen, A.S. Schwarz, R. Schwitters and M. Staric 515 (2003) 313

Summary of session 5: New aging effects, P. Križan 515 (2003) 319

Session 6: Aging effects in RPCs

Performances of RPCs in the BaBar experiment, F. Anulli, R. Baldini, H. Band, R. Bionta, J. Brau, V. Brigljevic, A. Buzzo, A. Calcaterra, M. Carpinelli, T. Cartaro, N. Cavallo, G. Crosetti, G. De Nardo, R. De Sangro, A. Eichenbaum, D. Falciai, F. Fabozzi, F. Ferroni, G. Finocchiaro, F. Forti, R. Frey, J. Johnson, C. Gatto, E. Grauges-Pous, M. Iwasaki, D. Lange, L. Lista, M. Lo Vetere, C. Lu, H. Neal, N. Neri, M. Macri, B. Messener, M.R. Monge, T. Moore, S. Morganti, A. Palano, E. Paoloni, P. Paolucci, S. Passaggio, F. Pastore, C. Patrignani, P. Patteri, I. Peruzzi, D. Piccolo, M. Piccolo, G. Piredda, A. Pompili, E. Robutti, A. Roodman, A. Santroni, C. Sciacca, N. Sinev, A. Soha, D. Storm, S. Tosi, J. Va'vra, Y. Xie, D. Wright and W. Wisniewski 515 (2003) 322

Results on long-term performances and laboratory tests of the L3 RPC system at LEP, M. Alviggi, G. Carlino, F. Conventi, R. de Asmundis, M.D. Pietra, D.D. Volpe, S. Patricelli, P. Paolucci, D. Piccolo, C. Sciacca and G. Sekhniaidze 515 (2003) 328

Further advances in aging studies for RPCs, G. Aielli, P. Camarri, R. Cardarelli, A. Di Ciaccio, L. Di Stante, B. Liberti, A. Paoloni, E. Pastori and R. Santonico 515 (2003) 335

Aging study for resistive plate chambers of the CMS muon trigger detector, M. Abbrescia, A. Colaleo, G. Iaselli, F. Loddo, M. Maggi, B. Marangelli, S. Natali, S. Nuzzo, G. Pugliese, A. Ranieri, F. Romano, S. Altieri, G. Belli, G. Bruno, R. Guida, S.P. Ratti, C. Riccardi, P. Torre and P. Vitulo 515 (2003) 342

First results from an aging test of a prototype RPC for the LHCb Muon System, A. Bizzeti, G. Carboni, G. Collazuol, S. De Capua, D. Domenici, G. Ganis, R. Messi, G. Passaleva, E. Santovetti and M. Veltri 515 (2003) 348

Summary of session 6: aging effects in RPC detectors, J. Va'vra 515 (2003) 354

Session 7: Summaries and Conclusions

Fundamental understanding of aging processes: review of the workshop results, F. Sauli 515 (2003) 358

Recommendations for building and testing the next generation of gaseous detectors, B. Schmidt 515 (2003) 364

Final remarks—do we need a Global Universal Aging Research & Development (GUARD) facility?, M. Hohlmann 515 (2003) 372

Accelerators, Beam Handling and Targets

Vibrating wire apparatus for periodic magnetic structure measurement, A.B. Temnykh 515 (2003) 387

Investigation of high duty factor ISR RFQ-1000, Y.R. Lu, C.E. Chen, J.X. Fang, S.L. Gao, J.F. Guo, Z.Y. Guo, D.S. Li, W.G. Li, O.J. Pan, X.T. Ren, Y. Wu, X.Q. Yan, J.X. Yu, M.L. Yu, U. Ratzinger, H. Deitinghoff, H. Klein and A. Schempp 515 (2003) 394

Effects of beam loss on the stability of a recirculating electrostatic accelerator for a long-pulse free-electron laser, S.O. Cho, B.C. Lee and Y.U. Jeong 515 (2003) 402

Minimum electron beam size of a double bend lattice, T.-Y Lee and J. Choi 515 (2003) 410

High Energy Physics Detectors

SEU rate estimates for the ATLAS/SCT front-end ASIC, L. Eklund, C. Buttar, C. Grigson, G. Kramberger, I. Mandić, M. Mikuž and P. Phillips 515 (2003) 415

Radioactivation of silicon tracker modules in high-luminosity hadron collider radiation environments, I. Dawson, A. Moraes, C. Buttar, V. Cindro and I. Mandić 515 (2003) 422

A first mass production of gas electron multipliers, P.S. Barbeau, J.I. Collar, J.D. Geissinger, J. Miyamoto, I. Shipsey and R. Yang 515 (2003) 439

ATLAS MDT neutron sensitivity measurement and modeling, S. Ahlen, G. Hu, D. Osborne, A. Schulz, J. Shank, Q. Xu and B. Zhou 515 (2003) 446

Energy resolution of a silicon detector with the RX64 ASIC designed for X-ray imaging, D. Bollini, A.E.C. Rodriguez, W. Dąbrowski, A.D. Garcia, M. Gambaccini, P. Giubellino, P. Grybos, M. Idzik, A. Marzari-Chiesa, L.M. Montano, F. Prino, L. Ramello, M. Sitta, K. Swientek, R. Wheadon and P. Wiacek 515 (2003) 458

DIRAC: A high resolution spectrometer for pionium detection, B. Adeva, L. Afanasyev, M. Benayoun, A. Benelli, Z. Berka, V. Brekhovskikh, G. Caragheorgheopol, T. Cechak, M. Chiba, E. Cima, S. Constantinescu, C. Detraz, D. Dreossi, D. Drijard, A. Dudarev, I. Evangelou, M. Ferro-Luzzi, M.V. Gallas, J. Gerndt, R. Giacomich, P. Gianotti, M. Giardoni, D. Goldin, F. Gómez, A. Gorin, O. Gortchakov, C. Guaraldo, M. Hansroul, M. Iliescu, M. Zhabitsky, V. Karpukhin, J. Kluson, M. Kobayashi, P. Kokkas, V. Komarov, V. Kruglov, L. Kruglova, A. Kulikov, A. Kuptsov, V. Kurochkin, K.-I. Kuroda, A. Lamberto, A. Lanaro, V. Lapshin, R. Lednicky, P. Leruste, P. Levisandri, A.L. Aguera, V. Lucherini, T. Maki, N. Manthos, I. Manuilov, L. Montanet, J.-L. Narjoux, L. Nemenov, M. Nikitin, T.N. Pardo, K. Okada, V. Olchevskii, D. Orecchini, A. Pazos, M. Pentia, A. Penzo, J.-M. Perreau, C. Petrascu, M. Pló, T. Ponta, D. Pop, G.F. Rappazzo, A. Riazantsev, J.M. Rodriguez, A.R. Fernandez, A. Romero, V. Rykalin, C. Santamarina, J. Saborido, J. Schacher, Ch.P. Schuetz, A. Sidorov, J. Smolik, M. Steinacher, F. Takeutchi, A. Tarasov, L. Tauscher, M.J. Tobar, F. Triantis, S. Trusov, V. Utkin, O.V. Doce, P. Vázquez, S. Vlachos, V. Yazkov, Y. Yoshimura and P. Zrelov 515 (2003) 467

High Energy Physics Systems

FIASCO: a multidetector optimized for semiperipheral heavy ion collisions at Fermi energies, M. Bini, G. Casini, A. Olmi, G. Poggi, A.A. Stefanini, L. Bardelli, A. Bartoli, L. Bidini, C. Coppi, P. Del Carmine, A. Mangiarotti, P.R. Maurenzig, G. Pasquali, S. Piantelli, S. Poggi, N. Taccetti and E. Vanzi 515 (2003) 497

Commissioning of the DAΦNE beam test facility, G. Mazzitelli, A. Ghigo, F. Sannibale, P. Valente and G. Vignola 515 (2003) 524

The VLQ calorimeter of H1 at HERA: a highly compact device for measurements of electrons and photons under very small scattering angles, A. Stellberger, J. Ferencei, F. Kriváň, K. Meier, O. Niedermaier, O. Nix, K. Schmitt, J. Špalek, J. Stiewe and M. Weber 515 (2003) 543

Nuclear Spectroscopy

Progress toward a new measurement of the parity violating asymmetry in $\vec{n} + p \rightarrow d + \gamma$, W.M. Snow, W.S. Wilburn, J.D. Bowman, M.B. Leuschner, S.I. Penttilä, V.R. Pomeroy, D.R. Rich, E.I. Sharapov and V.W. Yuan 515 (2003) 563

Texture analysis with the new HIPPO TOF diffractometer, H.-R. Wenk, L. Lutterotti and S. Vogel 515 (2003) 575

Neutron spectrometry with a recoil radiator-silicon detector device, S. Agosteo, C. Birattari, G. D'Angelo, F. Dal Corso, A.F. Para, I. Lippi, A. Pola and P. Zotto 515 (2003) 589

Gamma, X-ray and Charged Particle Detectors

A pair polarimeter for linearly polarized high-energy photons, B. Wojtsekhowski, D. Tedeschi and B. Vlahovic 515 (2003) 605

The jump transition of the GM mode in a gas counter, X.-Q. Wen, K. Iwatani, S. Hamanaka and K. Shizuma 515 (2003) 614

Energy linearity response of CZT detectors to X-rays in the region of the Zn, Cd and Te K-absorption edges: experimental results, E.D.C. Freitas, J.M. Cardoso, L.M.P. Fernandes, J.A.M. Lopes, J.F.C.A. Veloso and J.M.F. dos Santos 515 (2003) 618

Monte Carlo modeling of heterogeneous scintillation flow-cell detectors, H. Tan and T.A. DeVol 515 (2003) 624

Pulse-shape discrimination in the IGEX experiment, D. González, J. Morales, S. Cebrián, E. García, I.G. Irastorza, A. Morales, A. Ortiz de Solórzano, J. Puimedón, M.L. Sarsa, J.A. Villar, C.E. Aalseth, F.T. Avignone III, R.L. Brodzinski, W.K. Hensley, H.S. Miley, J.H. Reeves, I.V. Kirpichnikov, A.A. Vasenko, A.A. Klimenko, S.B. Osetrov, A.A. Smolnikov, S.I. Vasiliev, V.S. Pogosov and A.G. Tamanyan 515 (2003) 634

Non-destructive analysis of low-enriched and natural U samples by γ-spectrometry, N.C. Tam, J. Zsigrai, L. Lakosi, E. József and J. Sáfár 515 (2003) 644

Highly sensitive measurement of α-rays in NaI(Tl) scintillator by pulse shape discrimination with charge-sensitive analog-to-digital converter, K. Ichihara, K. Fushimi, N. Koori, S. Nakayama, K. Takahisa, S. Umehara and S. Yoshida 515 (2003) 651

Use of Si strip detectors for low-energy particles in compact geometry, U.C. Bergmann, H.O.U. Fynbo and O. Tengblad 515 (2003) 657

Superior radiation tolerance of thin epitaxial silicon detectors, G. Kramberger, D. Contarato, E. Fretwurst, F. Hönniger, G. Lindström, I. Pintilie, R. Röder, A. Schramm and J. Stahl 515 (2003) 665

Performance of large-area avalanche photodiode for low-energy X-rays and γ-rays scintillation detection, T. Ikagawa, J. Kataoka, Y. Yatsu, N. Kawai, K. Mori, T. Kamae, H. Tajima, T. Mizuno, Y. Fukazawa, Y. Ishikawa, N. Kawabata and T. Inutsuka 515 (2003) 671

Optical properties of the DIRC fused silica Cherenkov radiator, J. Cohen-Tanugi, M. Convery, B. Ratcliff, X. Sarazin, J. Schwiening and J. Va'vra 515 (2003) 680

Study of counting characteristics of porous dielectric detectors of radiations, M.P. Lorikyan 515 (2003) 701

Study and application of low pressure multi-wire proportional chambers, Y.L. Ye, Z.Y. Di, Z.H. Li, Q.J. Wang, T. Zheng, T. Chen, D.X. Jiang, Y.C. Ge, D.Y. Pang and X.Q. Li 515 (2003) 718

A gain monitoring system with a Nd:YAG laser for the photomultipliers of the HERMES experiment, H. Tanaka, B. Bains, M. Bouwhuis, R. Holt, N.C.R. Makins, Y. Miyachi, A. Most, A. Nathan, H. Ohsuga, B.R. Owen, T.-A. Shibata and S. Williamson 515 (2003) 725

Neutron Physics

Measurement of neutrons from thick Fe target bombarded by 210 MeV protons, S. Yonai, T. Kurosawa, H. Iwase, H. Yashima, Y. Uwamino and T. Nakamura 515 (2003) 733

Non-destructive analysis of nuclear fuel by means of thermal and cold neutrons, E.H. Lehmann, P. Vontobel and A. Hermann 515 (2003) 745

Numerical and Data Analysis

Multipulse time of flight technique of variable resolution based on linear processing of count pulses, D.V. Stoyanov, A.F. Masheva, O.I. Vankov and G.V. Kolarov 515 (2003) 760

Background subtraction for Doppler-shift attenuation and angular correlation measurements with multi-detector Ge arrays, K. Starosta, D.B. Fossan, T. Koike, C. Vaman, D.C. Radford and C.J. Chiara 515 (2003) 771

The DELPHI Trigger System at LEP2 energies, A. Augustinus, V. Canale, P. Charpentier, J.-P. De Wulf, F. Fontanelli, F. Formenti, C. Gaspar, P. Gavillet, R. Goorens, J.P. Laugier, P. Musico, M. Paganoni, M. Sannino and G. Valenti 515 (2003) 782

Prediction of neutrino fluxes in the NOMAD experiment, P. Astier, D. Autiero, A. Baldisseri, M. Baldo-Ceolin, M. Banner, G. Bassompierre, K. Benslama, N. Besson, I. Bird, B. Blumenfeld, F. Bobisut, J. Bouchez, S. Boyd, A. Bueno, S. Bunyatov, L. Camilleri, A. Cardini, P.W. Cattaneo, V. Cavasinni, A. Cervera-Villanueva, G. Collazuol, G. Conforto, C. Conta, R. Cousins, D. Daniels, H. Degaudenzi, T. Del Prete, A. De Santo, T. Dignan, L. Di Lella, E. do Couto e Silva, J. Dumarchez, M. Ellis, G.J. Feldman, A. Ferrari, R. Ferrari, D. Ferrère, V. Flaminio, M. Fraternali, J.-M. Gaillard, E. Gangler, A. Geiser, D. Geppert, D. Gibin, S. Gninenko, A. Godley, J.-J. Gomez-Cadenas, J. Gosset, C. Gößling, M. Gouanère, A. Grant, G. Graziani, A. Guglielmi, C. Hagner, J. Hernando, T.M. Hong, D. Hubbard, P. Hurst, N. Hyett, E. Iacopini, C. Joseph, F. Juget, M. Kirsanov, O. Klimov, J. Kokkonen, A. Kovzelev, A. Krasnoperov, C. Lachaud, B. Lakić, A. Lanza, L. La Rotonda, M. Laveder, A. Letessier-Selvon, J.-M. Levy, L. Linssen, A. Ljubičić, J. Long, A. Lupi, A. Marchionni, F. Martelli, X. Méchain, J.-P. Mendiburu, J.-P. Meyer, M. Mezzetto, S.R. Mishra, G.F. Moorhead, P. Nédélec, Yu. Nefedov, C. Nguyen-Mau, D. Orestano, F. Pastore, L.S. Peak, E. Pennacchio, H. Pessard, R. Petti, A. Placci, G. Polesello, D. Pollmann, A. Polyarush, B. Popov, C. Poulsen, J. Rico, P. Riemann, C. Roda, A. Rubbia, F. Salvatore, K. Schahmaneche, B. Schmidt, T. Schmidt, M. Sevior, D. Shih, D. Sillou, F.J.P. Soler, G. Sozzi, D. Steele, U. Stiegler, M. Stipčević, Th. Stolarczyk, M. Tareb-Reyes, G.N. Taylor, V. Tereshchenko, A. Toropin, A.-M. Touchard, S.N. Tovey, M.-T. Tran, E. Tsesmelis, J. Ulrichs, L. Vacavant, M. Valdata-Nappi, V. Valuev, F. Vannucci, K.E. Varvell, M. Veltri, V. Vercesi, G. Vidal-Sitjes, J.-M. Vieira, T. Vinogradova, F.V. Weber, T. Weisse, F.F. Wilson, L.J. Winton, B.D. Yabsley, H. Zaccone and K. Zuber 515 (2003) 800

A statistical correction method for minimization of systemic artefact in a continuous-rotate X-ray based industrial CT system, U. Kumar, G.S. Ramakrishna, A.S. Pendharkar and S. Kailas 515 (2003) 829

Medical Applications and Dosimetry

Positron camera for range verification of heavy-ion radiotherapy, Y. Iseki, H. Mizuno, Y. Futami, T. Tomitani, T. Kanai, M. Kanazawa, A. Kitagawa, T. Murakami, T. Nishio, M. Suda, E. Urakabe, A. Yunoki and H. Sakai 515 (2003) 840

Baking effect for NdFeB magnets against demagnetization induced by high-energy electrons, T. Bizen, Y. Asano, T. Hara, X. Marechal, T. Seike, T. Tanaka, H.S. Lee, D.E. Kim, C.W. Chung and H. Kitamura 515 (2003) 850

Synchrotron Radiation Research

New approach toward optimized resonant slow-extraction, T. Furukawa, K. Noda, M. Muramatsu, T. Uesugi, S. Shibuya, H. Kawai, E. Takada and S. Yamada 515 (2003) 853

Special Applications

Effect of instrumental instability and detector parameters in positron annihilation Coincidence Doppler Broadening measurements: a Monte Carlo simulation study, K. Sudarshan, P.K. Pujari and A. Goswami 515 (2003) 862

Preliminary study of the feasibility of a non-crystalline positron emission tomography using a suspension of superheated superconducting grains (SSG) in high-density dielectric matrix (HDDM) as detector, R.B. Dawson, J. Maillard, G. Maurel, J. Silva and G. Waysand 515 (2003) 869

Proposal for enhanced spatial resolution and efficiency of a fast-neutron scintillator detector by use of a parabolic mirror, V.O. de Haan and T.H.J.J. van der Hagen 515 (2003) 881

Optimisation of fast-neutron detection efficiency and spatial resolution for a radiographic imaging system, V.O. de Haan and T.H.J.J. van der Hagen 515 (2003) 886

Errata

Erratum to "Modeling detector response for Neutron Depth Profiling" [Nucl. Instr. and Meth. A 366 (1995) 137], K.J. Coakley, R.G. Downing, G.P. Lamaze, H.C. Hofsass, C. Ronning and J. Biegel 515 (2003) 892

Erratum to "Fitting simulated random events to experimental histograms by means of parametric models" [Nucl. Instr. and Meth. A 503 (2003) 625], O. Kortner and C. Zupančič 515 (2003) 894